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clarion Service Manual

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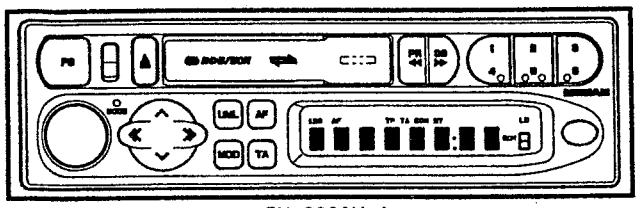
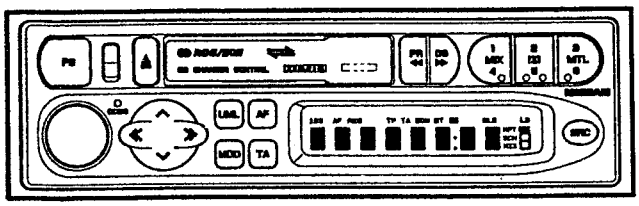


PN-9939U-A



PN-9940U-A

NISSAN Automobile Genuine FM/MW/LW Radio Cassette Combination with RDS-EON

Model **PN-9939U**
(Genuine No.B8121-89901
/ID No.CH916)

Model **PN-9940U**
(Genuine No.B8121-89902
/ID No.CK906)

■SPECIFICATIONS

◎ Radio section

Circuit system : Superheterodyne
Tuning system : Electronic tuning
FM 87.5MHz to 108.0MHz
MW 531kHz to 1602kHz
LW 153kHz to 279kHz
Intermediate frequency
: FM 10.7MHz
MW/LW 450kHz
Quieting sensitivity : FM Less than 11dB(at 30dB S/N)
MW Less than 32dB(at 20dB S/N)
LW Less than 40dB(at 20dB S/N)
Separation : FM More than 20dB
Auto stop sensitivity
: FM DX:25±6dB
LO:45±8dB
MW DX:32±6dB
LO:52±8dB
LW DX:32±6dB
LO:52±8dB

◎ Tape section

Reproduction system
: 4 track,2-channel,
stereo cassette deck
Tape speed : 3000~3090Hz
Wow and fllutter : Less than 0.28%
Separation : More than 30dB
Crosstalk : More than 40dB
S/N ratio : PN-9939U
Normal tape(120us)
More than 45dB
PN-9940U
Normal tape(120us)
More than 45dB(DOLBY OFF)
More than 55dB(DOLBY ON)
Metal tape(70us)
More than 47dB(DOLBY OFF)
More than 57dB(DOLBY ON)
FF,REW time : Less than 100sec.(C-60)

◎ General

Load impedance : 4Ω/CH
Output power : PN-9939U 5Wx4
PN-9940U 15Wx4
Power supply voltage
: DC13.2V(10.8~15.6V)
Negative ground
Current consumption
: Less than 10A
Dimensions : 180(W)x50(H)x160(D)mm
Weight : Approximately 1.6kg

※For improvement purposes,specifications and design are subject to change without prior notice.

※Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

※"Dolby" and the double -D symbol ◫ are trademarks of Dolby Laboratories Licensing Corporation.

Printed in Japan 298-5281-00 JUL.1995 B PN-9939U

■CAUTIONS ON HANDLING

- This unit can be used only in cars with a 12V battery, negative ground.
- Do not turn on the power until all connections are completed.
- Be sure to take up any slack in the tape befor liading a cassette tape.
- Use of C-120 cassette tapes is not recommended with this unit, as the extremely thin tape may easily stretch and break.
- When the head becomes dirty, clean it with a head cleaning tape.
- Do not let metal objects such as screwdrivers get near the head.
- Connectors are extremely important parts of the unit. Do not press on them with your finger, screwdriver, and so on, or damage them otherwise.
- Be extra careful not to let the panel connectors get dirth. If they do, immediately wipe off the dirt with a soft, dry cloth.

■DIFFERECES BETWEEN PN-9939U AND PN-9940U

PN-9939U	PN-9940U
	CD auto changer control
	Dolby B NR
	Tape type select(MTL)
	Mode select(SRC)
Power output:5W×4	Power output:15W×4

■COMPONENTS

◎ PN-9939U-A, PN-9940U-A

Main unit	————	1
Owners guide	————	1
DCP case	335-5006-00	1
Parts bag	921-8408-00	1
Machine screw	714-5008-41	(4)
D-sems screw	735-5008-11	(2)

■COMPUTER ANTI-THEFT SYSTEM

This unit has a built-in Computer Anth-Theft System (CATS) whitch makes the radio inoperative if power to the unit is interrupted for any reason whatsoever (including disconnection and reconnection of the car battery). The radio will remain inoperative UNLESS YOU ENTER THE CORRECT CATS CODE NUMBER.

The procedure below is necessary for the car audio system to start functioning. Follow the steps correctly to be able to turn on the unit.

◎ Release CATS

1. Press the power switch to turn the unit on
2. "CODE IN" is displayed.
3. Input the CATS code by pressing the preset buttons (1 to 4).
4. Press the ∧ button.
5. If the entered code number is correct . the radio turns on. A radio frequency appears on the display.
6. If the entered code is incorrect, the unit becomes inoperable for 10 seconds for the first three attempts, then the code input mode is automatically set ("CODE IN" is displayed).
7. If the code is incorrect the fourth time, the unit becomes inoperable for 60 minutes and "----" is displayed. After 60 minutes, the code input mode is automatically set ("CODE IN" is displayed). If the above is repeated 20 times, the unit will lock permanently.

■ADJUSTMENTS : for PN-9939U

◎ Adjustments for FM section

Item	Procedure
S-meter	1) Connect the milli-voltmeter to TP101(SM). 2) Input the 98.1MHz/30dBu(100% MOD) signal, and adjust the reading of meter to 2.4±1V by VR102(SM). (Cf.Fig.1 and 2)
FM Stop sensitivity	1) Connect the OSC to TP102(FM-SD). 2) Input the 98.1MHz/25dBu(1kHz,30% MOD) signal, and adjust VR103(FM SD) so that level of TP102 is high(5V). (Cf.Fig.1 and 2)

◎ Adjustment point

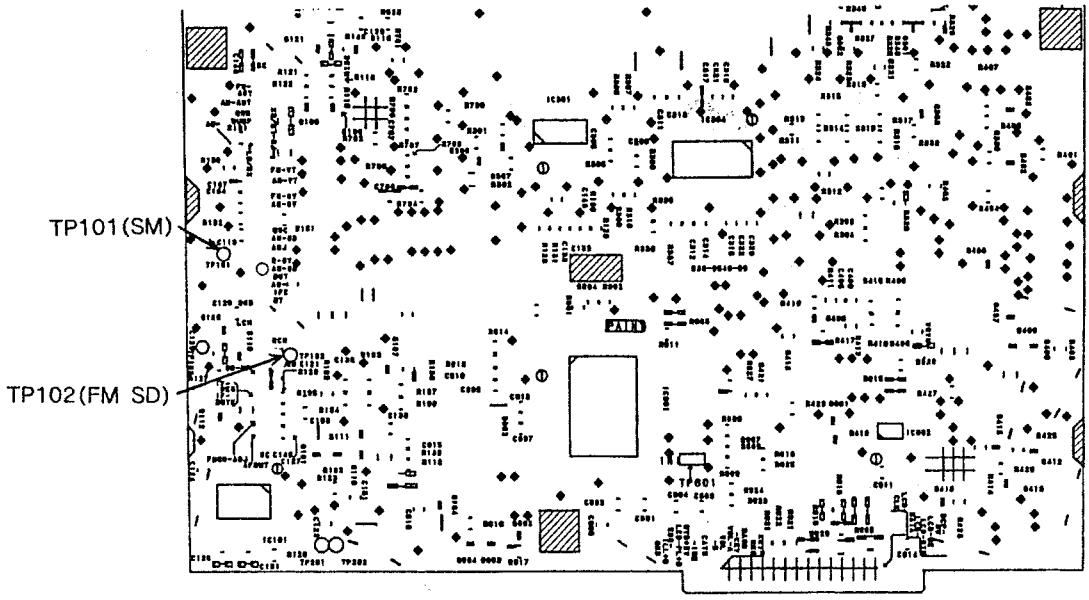


Fig.1 Main PWB(Bottom view)

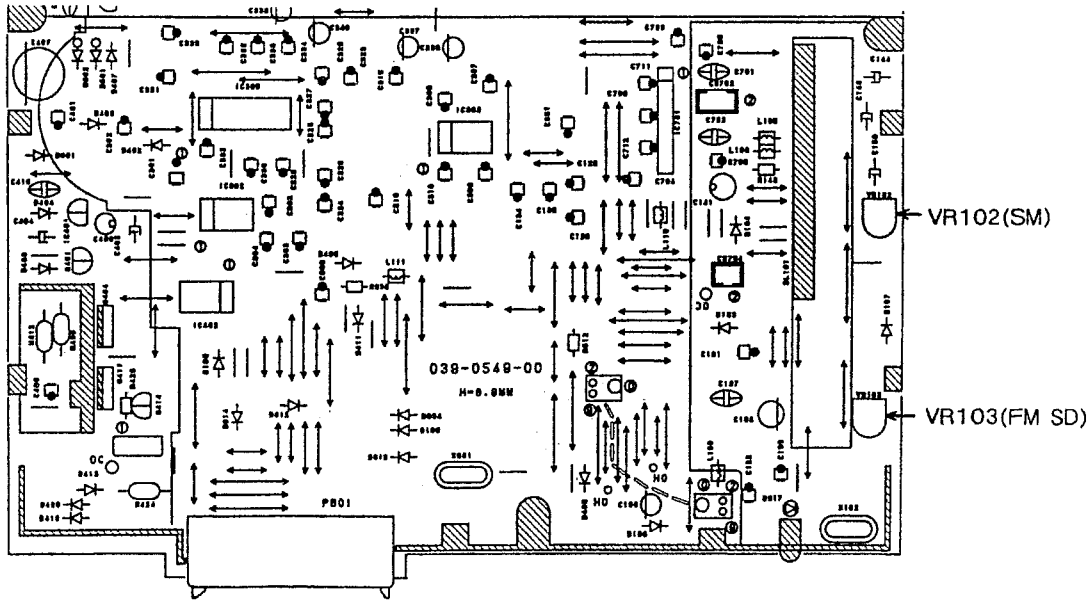


Fig.2 Main PWB(Top view)

■ADJUSTMENTS : for PN-9940U

◎ Adjustments for FM and DOLBY section

Item	Procedure
S-meter	1) Connect the milli-voltmeter to TP105(SM). 2) Input the 98.1MHz/30dBu(100% MOD) signal, and adjust the reading of meter to 2.4±1V by VR102(SM). (Cf.Fig.3 and 4)
Carrier wave	1) Connect the milli-voltmeter to TP201(CW). 2) Input the 98.1MHz/65dBu(100Hz,100% MOD) signal, and adjust the reading of meter to 1.77V±dB by VR104(CW). (Cf.Fig.3 and 4)
FM Stop sensitivity	1) Connect the OSC to TP101(FM-SD). 2) Input the 98.1MHz/25dBu(1kHz,30% MOD) signal, and adjust VR103(FM SD) so that level of TP101 is high(5V). (cf.Fig.3 and 4)
Dolby level	1) Connect the milli-voltmeter to TP301(L) and 302(R). 2) Insert a Dolby level test tape(400Hz-200nWb/m), and adjust VR701(L) and VR702(R) to obtain an output of 388mW±1dB. (Cf.Fig.3 and 5)

◎ Adjustment point

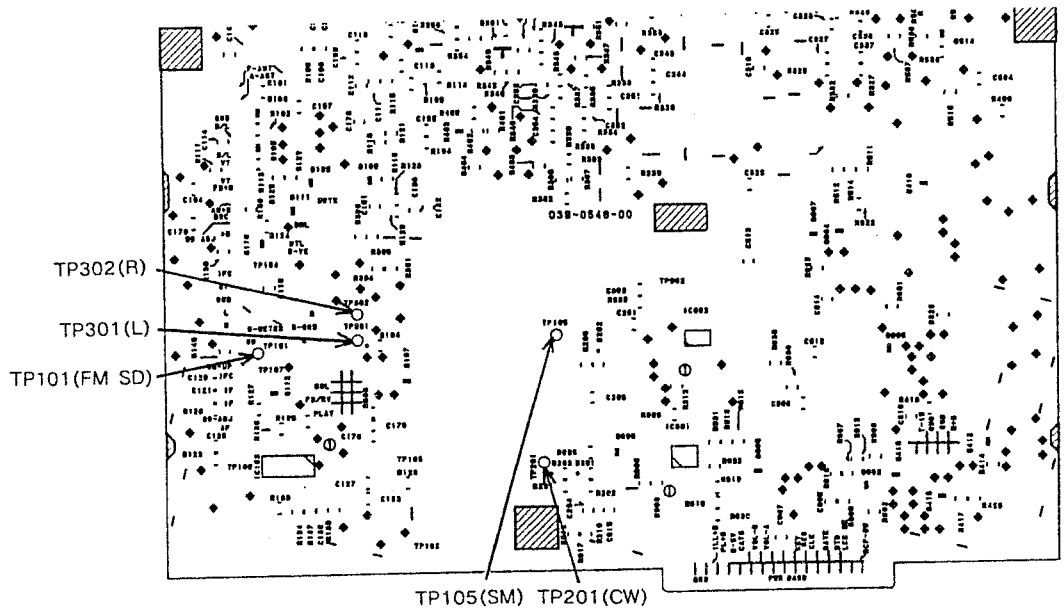


Fig.3 Main PWB(Bottom view)

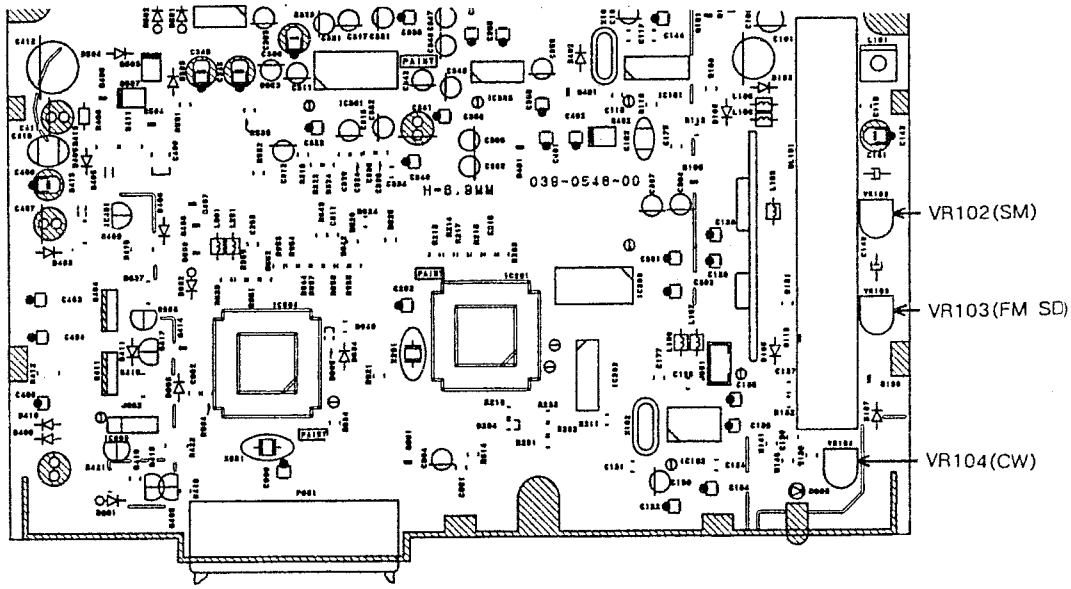


Fig.4 Main PWB(Top view)

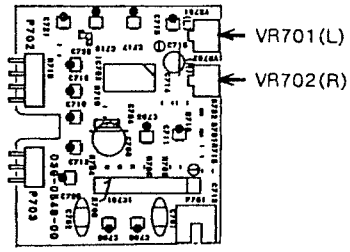
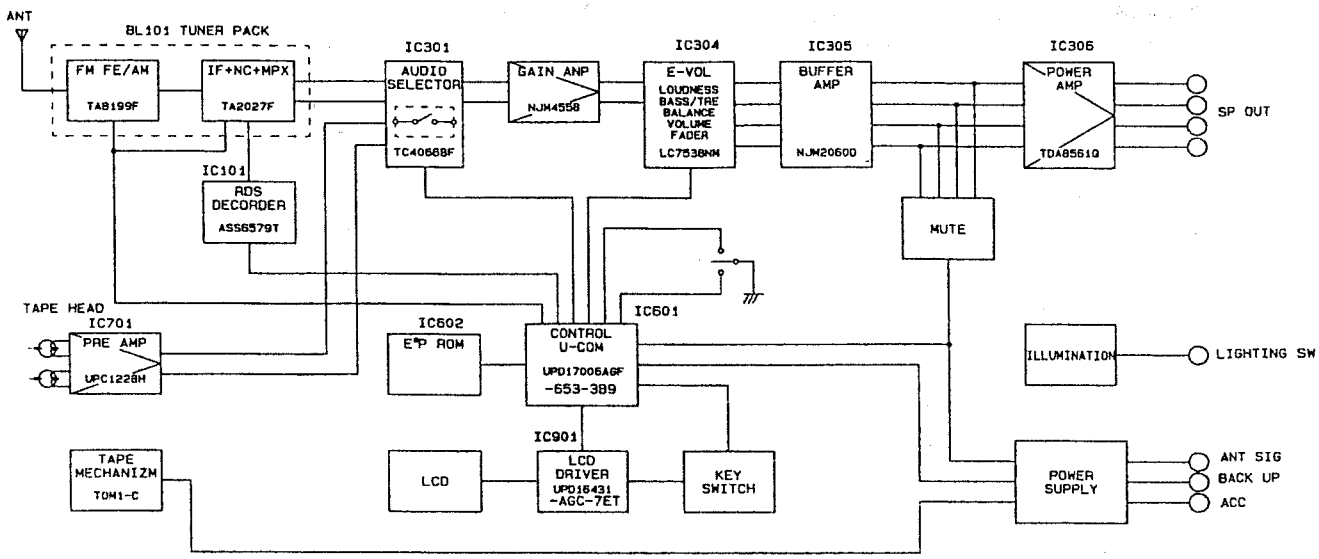


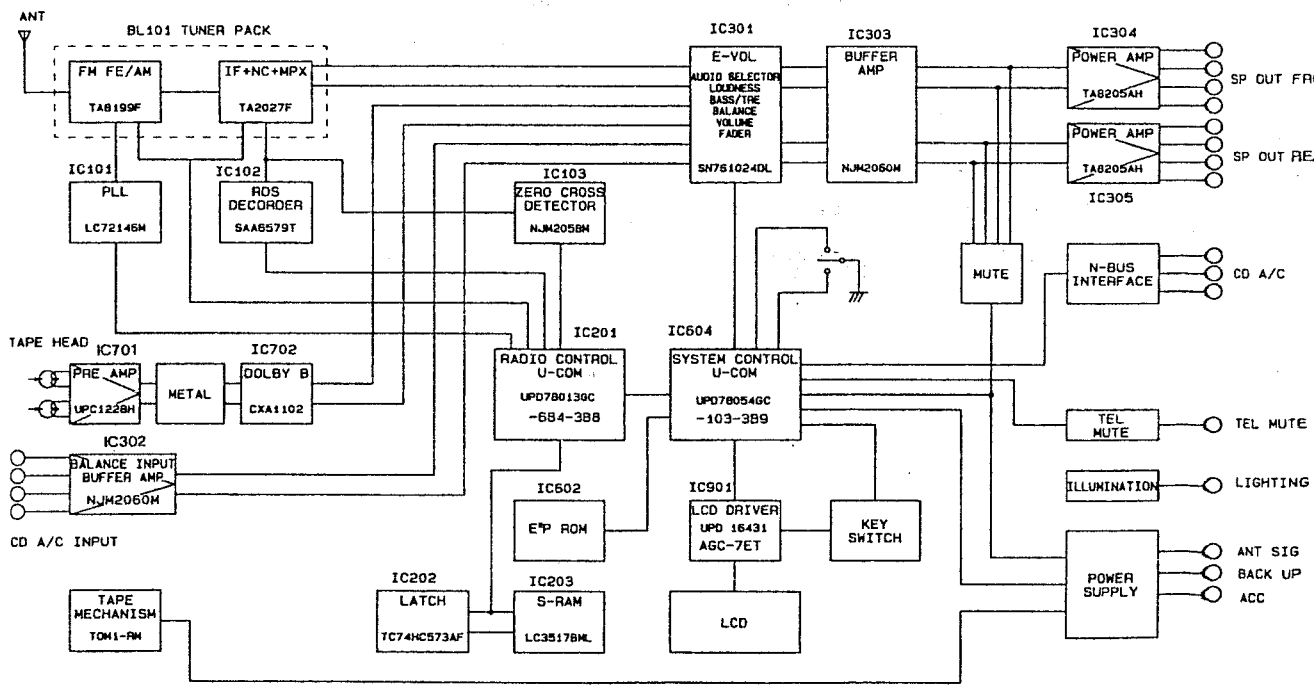
Fig.5 Pre PWB

■BLOCK DIAGRAM

◎ Block diagram for PN-9939U



◎ Block diagram for PN-9940U



■ EXPLANATION OF IC s

■ μPD78054GC-103-3B9 052-3127-00 System controller

Outward Form

80pin plastic QFP

Terminal Description

Pin No.	Symbol	I/O	Function
1	NC	–	Not in use.
2	LCD STB	O	Selection of indication and key scan driver.
3	EVOL STB	O	Electronic selection.
4	AVSS	–	A/D convertor reference GND.
5	E2P STB	O	E²PROM selection.
6	N STROBE	I	N-BUS strobe (Request) .
7	AVREF	I	A/D conversion reference voltage.
8	N RXD	I	N-BUS RxD terminal.
9	N TXD	O	N-BUS TxD terminal.
10	E2P DI	I	Input data from E²PROM.
11 12 13	SI1 SO1 SCK1	I O O	Data transfer and clock I/O.
14	KEY REQ	I	Input signal of KEY REQUEST from Indication, key scan driver.
15	C SRQ	I	C-BUS slave request.
16 17 18	C SBO C SBI C SCKO	O I O	Data input and output and clock used for C-BUS communication.
19	NC	–	Not in use.
20	MTL IN	I	Tape metal detection. "L" : Normal, "H" : Metal.
21	NC	–	Not in use.
22	REEL PULSE	I	Reel rotation detection for tape running. "L/H" changes : On rotation.
23	APC DET	I	Music detection input, "L" : Presence level, "H" : Absence level.
24 25 26	MODE SW3 MODE SW2 MODE SW1	I	Detects mode status of tape mechanism.

MODE STATUS	SW3	SW2	SW1
EJECT END	H	H	H
Loading/ejecting	L	H	H
STOP	L	H	L
-GAP-	H	H	L
FF PLAY direction FF	H	L	L
-GAP-	H	L	H
REW PLAY direction FF	L	L	H
-GAP-	L	L	L
FF PLAY direction PLY	H	L	L
-GAP-	H	L	L
REW PLAY direction PLY	H	H	L

Pin No.	Symbol	I/O	Function
27	M MOTER	O	Tape reel motor control, "H" for motor ON.
28 29	P MOTER2 P MOTER1	O	Tape motor drive control to control operational condition of GFX mechanism.

Control mode	PM1	PM2
Stop	L	L
Loading direction	H	L
Eject direction	L	H
Brake	H	H

Pin No.	Symbol	I/O	Function
30	DOLBY	O	Tape Dolby output. "H" for Dolby ON.
31	MECH MUTE	O	Mute and preamprefier control during tape running. "H" : FF/Rew condition, "L" : Others.
32	NC	–	Not in use.
33	VSS	–	GND terminal.
34	NC	–	Not in use.
35	FWD/REV	O	Preamplifier signal changeover according to tape running direction. "H" : FWD, "L" : REV.
36	APC SENCE	O	Select of tape music detection. "H" : Play, "L" : FF · REW
37	NC	–	Not in use.
38	DCP IN	I	Detect terminal of DCP used. "H" : DCP used.
39	MTL OUT	O	Metal tape changeover output. "H" for tape running condition.
40	UART SEL	O	Select terminal of NDS, immobilizer UART port. "H" : NDS.
41	TA ON	O	TA output. "H" : TA ON.
42 43	ASEL1 ASEL2	O	Voice source selection.

Source	ASEL1	ASEL2
Stop	L	L
Radio	L	H
Tape	L	L
A/C*	H	L

Pin No.	Symbol	I/O	Function
44	BUZZR	O	Buzzer transmission output. (3.75 kHz)
45	NC	–	Not in use.
46	TEL IN	I	Telephone status. "H" for being used.
47	AUX M ON	O	"H" for master microcomputer operation.
48	AUX S ON	I	Auxiliary slave operation status. "L" : Auxiliary slave on operation.
49	SYS ON		Power supply control for peripheral IC. Indication driver, C-bus buffer, rotary controller, tape mode SW input, A/C CONT, radio, music souce, tape audio, electronic volume.
50	POWER	O	Antenna control terminal. "H" : on.
51	AMP ON	O	Standby release control for power amplifier.
52	A MUTE	O	Voice source mute.
53	LCD ON	O	LCD back light control terminal. "H" : on.
54	LCD OE	O	LCD output enable terminal. "H" : enable.
55 \ 59	NC	–	Not in use.
60	RESET	I	System reset terminal.
61	BACK UP	I	Detection of Vdd power ON. "L" for power supply drop.
62	ACC ON	I	Accessory power supply detection. "H" for ACC ON.
63	ALRAM IN	I	Request secure terminal from ALARM unit.
64	K POWER	I	Power key input terminal. "H" : Pack IN.
65	K EJECT	I	Tape eject key input terminal.
66	TAPE IN	I	Pack detection input, "H" : Pack is present-From loading to pack IN.
67	K UML	I	UML key input terminal.
68	VDD	–	Power supply terminal.
69 70	X2 X1	–	System clock terminal (4.19MHz) .
71	NC	–	Not in use.
72 73	XT2 XT1	– I	System sub clock terminal.
74	AVDD	–	A/D power supply terminal.
75	AVREF0	–	A/D conversion reference voltage.
76 77	VOL A VOL B	I	Rotary encoder input.
78 \ 80	NC	–	Not in use.

■ µPD78014GC-684-AB8 052-1301-50 Tuner Controller

Outward Form

64-pin plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	SD UP	O	Output when measuring a PLL setting IF count.
2	LPF CONT	O	PLL low-pass filter control terminal.
3	RDS MUTE	O	"H" is output for 1 second both at power (POWER & ACC)-on and AM to FM band switching.
4 \ 7	OUT 1 \ OUT 4	O	"H"/"L" is simply output by receiving an arbitrary command from the master. (Not in use)
8	NC	–	Not in use.
9	GND	–	GND terminal.
10 \ 17	SRAM AD 0 \ SRAM AD 7	I/O	SRAM control. Address & data line. Port commonly used for the lower 8-bit address and 8-bit data.
18 \ 20	SRAM A 8 \ SRAM A 10	O	SRAM control. Address line. Upper 3-bit address output only port.
21	NC	–	Not in use.
22	$\overline{\text{SRAM CE}}$	O	SRAM control chip enable. "L" output at any time while the power (POWER & ACC) is turned on.
23	S CW	I	Initial setting CW detection enable ("H")/disable ("L").
24	GND	–	GND terminal.
25	NC	–	Not in use.
26	S SD UP	I	Initial setting SD UP enable ("L")/disable ("H").
27	$\overline{\text{SRQ}}$	O	C-BUS communication SRQ output.
28	NC	–	Not in use.
29	REM	O	Remote signal output. "L" output at any time while the power (POWER & ACC) is turned on.
30	R MUTE	O	RADIO MUTE output. MUTE ON at "L". Turn on when changing the reception frequency.
31	$\overline{\text{SRAM RD}}$	O	SRAM control. Data read signal. "L" output when executing a data read instruction from the SRAM.
32	$\overline{\text{SRAM WR}}$	O	SRAM control. Data write signal. "L" output when executing a data write instruction to the SRAM.
33	AM SD	I	AM band. With-station detection signal input.
34	SRAM ASTB	O	SRAM control timing signal. Always output by effecting the memory expansion mode.
35	RESET	I	Microcomputer reset signal.
36	INITIAL AM SD	I	Initial setting AM band SD detection. Yes ("H") /No ("L") designation. "H" : Performs SD detection.
37	ACC CONT	I	ACC signal (Terminal interrupt) . "H" at ACC ON. "L" at ACC OFF.
38	RDS IC CLK	I	RDS IC communication. Clock input. (Terminal interrupt)
39	IF MUTE	O	IF MUTE terminal.
40	VDD	–	Supply voltage terminal.
41 42	XTAL	I	Main clock oscillator (8.38 MHz) connection terminal.
43	GND	–	GND terminal.
44	NC	–	Not in use.
45	$\overline{\text{ST ID}}$	I	Stereo signal input. Stereo ("L")/monaural ("H").
46	A GND	–	A/D converter GND terminal.
47	S Meter	I	Electric field intensity (S meter) input (A/D conversion).
48	CW	I	CW (carrier) signal input (A/D conversion) . Only when initial setting CW detection is enabled.
49	SD	I	Station enable detection signal input.
50 \ 52	NC	–	Not in use.
53	RDS IC DATA	I	RDS IC communication data input. The port is read directly at clock interrupt time.
54	NC	–	Not in use. (+5V pullup or GND)
55	AVDD	–	A/D converter supply power.
56	A VREF	I	A/D converter reference voltage input.
57	PLL DI	I	PLL IC serial communication data input.
58	PLL DO	O	PLL IC serial communication data output.
59	PLL CLK	O	PLL IC serial communication clock output. Clock frequency : 524 kHz.
60	PLL CE	O	PLL IC serial communication chip enable output.
61	NC	–	Not in use.
62	C-BUS SBI	I	C-BUS communication data input.
63	C-BUS SBO	O	C-BUS communication data output.
64	C-BUS SCK	I	C-BUS communication clock input. The clock frequency depends on the master microcomputer.

■ μPD17006AGF-653-3B9 052-1303-50 Tuner controller for RDS

Outward Form

80 pin Plastic QFP

Terminal Description

Pin No.	Symbol	I/O	Function
1	ST IND	I	Pin for lighting "ST" LCD while the input level is "L" during FM station reception.
2～4	NC	–	Not in use.
5	REMOCON IN	I	Pin for input from the 1-wire, voltage conversion type remote controller.
6	VSM	I	Pin used for signal (field strength) comparison during tracking of same programme.
7	FM IF	I	Pin for input of FM IF frequency counter signal.
8	AM IF	I	Pin for input of MW/LW IF frequency counter signal.
9	RDS START	I	Pin for input of start signal from the RDS decoder IC.
10	RDS DATA	I	Pin for input of RDS data from the RDS decoder IC synchronized with RDS CLK.
11	RDS CLK	I	Pin for input of clock from the RDS decoder IC.
12	RDS RES	O	Pin used as the reset flag of synchronizing software.
13	RDS MUTE	O	MW/LW "L" output terminal which outputs "L" for 1 sec when FM power is switched ON.
14	VDD	–	Power pin.
15	AM OSC	I	Pin for input of MW/LW band VCO (receiving frequency + 10.71MHz) .
16	FM OSC	I	Pin for input of FM band VCO (receiving frequency + 10.7MHz) .
17	GND	–	Earth terminal.
18 19 20	EO EO AM EO FM	O	Pins for output of PLL error signals.
21	LW/MW FM	O	Pin for output of "H" during LW reception.
22	REM	O	Pin for system power control.
23	VOLCE	O	Pin for electronic volume control.
24	MUTE	O	Pin for system muting control (interlocked with electronic volume).
25	AM + B	O	Pin for MW/ LW band power control.
26	FM + B	O	Pin for FM band power control.
27	REM2	O	System control terminal 2.
28	BEEP	O	Pin for output of pulse for generating beep sound.
29	B/U DET	I	Pin for detecting that the system back-up power is dropped.
30	VDD	–	Power pin.
31	CE	I	Pin for input of Chip Enable signal.
32	MOTOR	O	Pin for cassette deck power control.
33	GND	–	Earth pin.
34 35	X OUT X IN	–	Pins for connection of X'tal oscillator.
36	NC	–	Not in use.
37	ACC IN	I	Pin for detecting the accessory power input from the car.
38 39	VOL L VOL R	I	Pins for input of electronic volume signals (phase comparison method).
40	BAND/ILL	I	Pin for input of BAND key signal.
41～44	KO3～KO0	O	Pins for output of key scan signals.
45～46	NC	–	Not in use.
47	DCP SET	I	DCP SET/RERESE.
48	POWER	I	POWER ON/OFF terminal.
49～52	KI3～KI0	I	Key scan input terminal.
53	LCD KEY REQ	I	Pin for input of Key ON signal from the LCD driver.
54	PHONE INT	I	Telephone signal port. MUTE is output while this port is "H".
55	NC	–	Not in use.
56 57 58	SI SO SCK	I O O	Serial data line to/from the LCD driver and electronic volume.
59	REM OUT	O	STOP request signal for externally connected components.
60	REM IN	I	Operation signal from externally connected components.
61	GND	–	Earth pin.
62	LCD CS	O	Pin for output of LCD driver Chip Select signal.
63	NC	–	Not in use.
64	VDD	–	Power pin.
65	LCD OE	O	Pin for LCD driver control.
66	ILLUMI	O	Two cycles of "H" ⟷ "L" are repeated when the BAND key is held for 2 sec. The initial status is "L". Because of the presence of the illumination line, "H" can be output even when Acc is OFF.
67～68	NC	–	Not in use.
69	R/T	O	Pin for output for switching between the radio mode (L) and tape mode (H) .
70	DOLBY ON/OFF	O	In Tape mode, alternates "H" and "L" every time the switch is pressed.
71	APC ON/OFF	O	In tape mode with APC ON, outputs "H" during FW/REW.
72	MTL ON/OFF	O	In tape mode, alternates "H" and "L" every time the switch is pressed.
73	FF/REW	I	In case the radio monitoring is used, radio broadcasting is monitored while this port is "L" with the cassette pack in.
74	PACK IN	I	L: Cassette pack present (tape mode). H: Cassette pack absent (radio mode).
75	FOW/REV	I	Cassette tape transport direction. (In tape mode, outputs MUTE when the port status changes.)
76	FM SD	I	Pin for station detection during tracking of same programme while auto tuning (Seek, AS, PS) is activated.
77	DX/LO	O	Pin used during Seek and AS (usually "L") .
78	RDS SD	O	Pin used during Seek, AS and auto tracking in FM mode (usually "L") .
79	IF REQ	O	Outputs "L" when IF count is required during Seek, AS and PS (usually "H") .
80	IF MUTE	O	Outputs signal during auto tracking operation.

KEY Matrix Table

KEY OUT \ KEY IN	KI0 (52 pin)	KI1 (51 pin)	KI2 (50 pin)	KI3 (49 pin)
KO0 (44 pin)	D SW0	D SW1	D SW2	D SW3
KO1 (43 pin)	BAND AM	RADIO MONITOR	E VOL FADER	T MODE
KO2 (42 pin)		FF/REW	NISSAN/OTHER	

: Diode SW

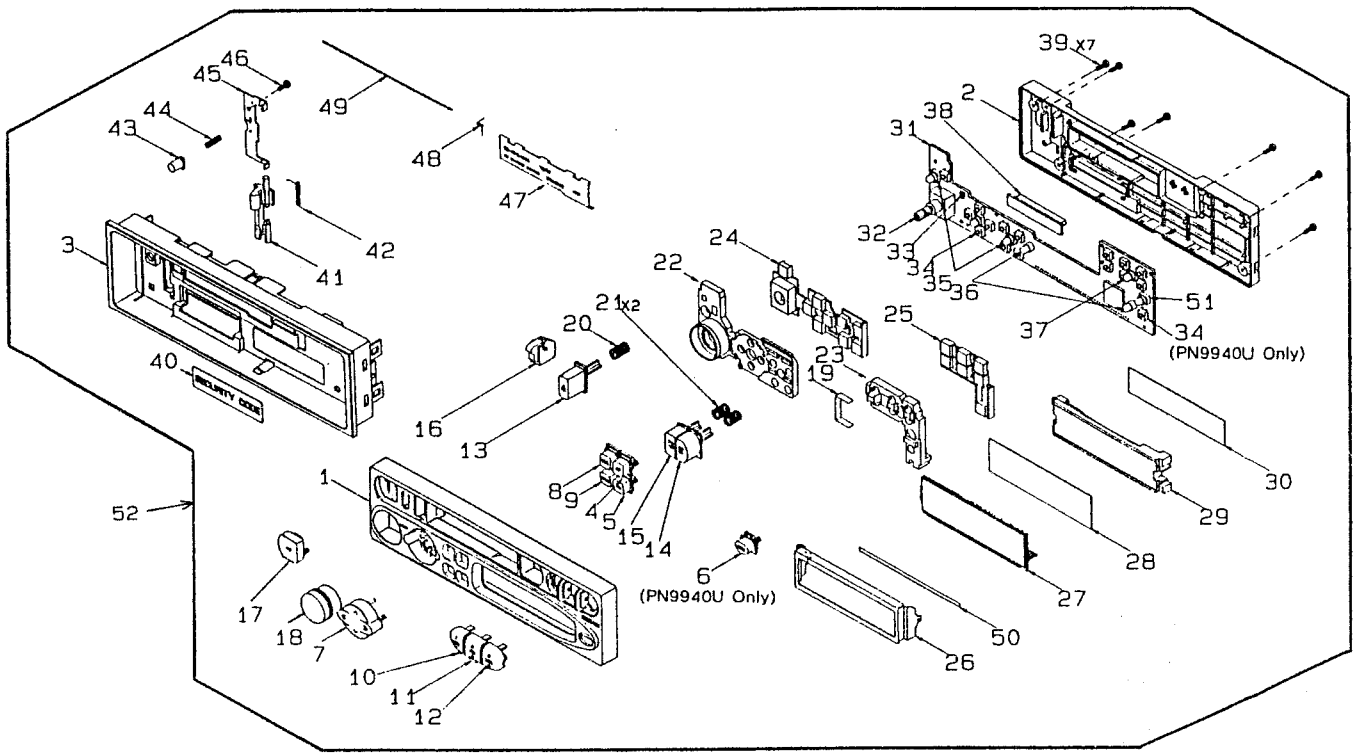
Diode SW

*In the table below, "0" means the diode switch is OFF (open) and "1" does the diode switch is ON (short).

Switch Name	Function
D SW0 D SW1	Select the initial setting of AS (Auto Store). NISSAN / D SW0 / D SW1 / Function 1 / 1 / X / Both FM2 and AM/MW bands 1 / 0 / X / ——
D SW2 D SW3	Select the availabilities of the APC, Dolby and MTL functions. D SW2 / D SW3 / Function 0 / 0 / APC: OFF. DOLBY: OFF. MTL: OFF 0 / 1 / APC: OFF. DOLBY: OFF. MTL: ON. 1 / 0 / APC: OFF. DOLBY: ON. MTL: ON. 1 / 1 / APC: ON. DOLBY: ON. MTL: ON.
BAND AM	Select the availability of the AM band. 0: AM band available. 1: AM band unavailable.
RADIO MONITOR	Select the availability of the radio monitoring function (reproducing radio during FF/REW). 0: Radio monitoring unavailable. 1: Radio monitoring available.
E VOL FADER	Select the availability of the fader function with the electronic volume. 0: Fader available. 1: Fader unavailable.
FF/REW	Select the functions of FF and REW. 0: unavailable (blinking). 1: available.
NISSAN/OTHER	Select the destination NISSAN or others. 0: Others 1: NISSAN

■EXPLODED VIEW · PARTS LIST

◎ Escutcheon section

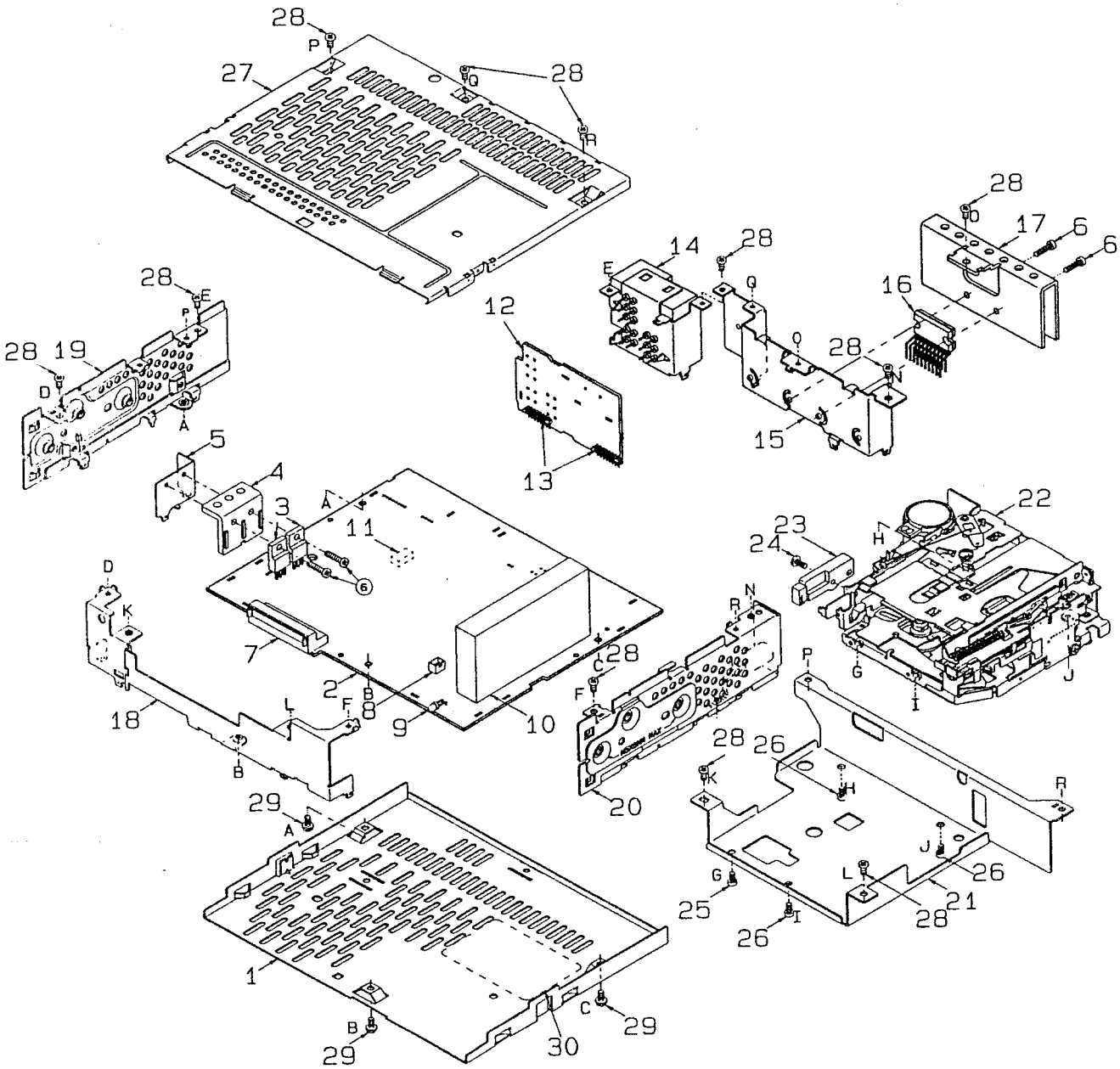


REF NO.	PART NO.	DESCRIPTION	Q'TY
1	370-9027-10	ESCUTCHEON(PN-9939U)	1
	370-9027-00	ESCUTCHEON(PN-9940U)	1
2	370-9028-00	REAR COVER	1
3	370-9029-00	BASE ESCUTCHEON	1
4	382-3864-00	BUTTON(AF)	1
5	382-3865-00	BUTTON(TA)	1
6	382-3866-10	BUTTON(SRC) (PN-9940U)	1
7	382-3867-00	BUTTON(SCAN)	1
8	382-3868-00	BUTTON(UML)	1
9	382-3869-00	BUTTON(MOD)	1
10	382-3872-10	BUTTON(1/4) (PN-9939U)	1
	382-3872-20	BUTTON(1/4) (PN-9940U)	1
11	382-3873-10	BUTTON(2/5) (PN-9939U)	1
	382-3873-20	BUTTON(2/5) (PN-9940U)	1
12	382-3875-10	BUTTON(3/6) (PN-9939U)	1
	382-3875-20	BUTTON(3/6) (PN-9940U)	1
13	382-3879-00	BUTTON(EJECT)	1
14	382-3880-00	BUTTON(FF)	1
15	382-3881-00	BUTTON(REW)	1
16	382-3882-00	BUTTON(DCP RELEASE)	1
17	382-3883-00	BUTTON(PS)	1
18	380-5346-00	KNOB	1
19	347-5201-00	SPACER	1
20	750-3185-00	SPRING(EJECT)	1
21	750-3186-00	SPRING(FF/REW)	2
22	335-4963-00	ILLUMI PLATE(L)	1
23	335-4964-00	ILLUMI PLATE(R)	1
24	345-7678-00	CUSHION(L)	1
25	345-7679-00	CUSHION(R)	1
26	331-1691-00	LCD HOLDER	1

REF NO.	PART NO.	DESCRIPTION	Q'TY
27	379-1035-40	INDICATOR	1
28	335-4894-00	REFLECTOR	1
29	335-4893-00	LCD ILLUMI	1
30	347-5188-00	PLATE	1
31	039-0550-00	SWITCH PWB	1
32	016-0010-02	VARIABLE RESISTOR(MAIN)	1
33	001-0518-00	LED(CATS)	1
34	013-3978-01	SWITCH(PN-9939U)	15
		SWITCH(PN-9940U)	16
35	017-0433-04	PILOT LAMP(14V40mA)	3
36	017-0429-04	PILOT LAMP(8V105mA)	2
37	017-0428-07	PILOT LAMP(14V40mA)	1
38	076-0481-00	PLUG(DCP)	1
39	716-0872-01	PAD SCREW	7
40	347-5187-00	GUIDE LABEL(SECURITY)	1
41	335-4705-0L	HOOK	1
42	750-3106-0L	SPRING(HOOK)	1
43	382-3661-0L	BUTTON(PUSH OUT)	1
44	750-3187-00	SPRING(PUSH OUT)	1
45	331-1697-00	HOOK HOLDER	1
46	716-0778-00	WAVE SCREW(HOOK)	1
47	320-0485-86	DUSTPROOF-CVR(PN9939U)	1
	320-0485-85	DUSTPROOF-CVR(PN9940U)	1
48	750-2530-03	SPRING	1
49	341-1278-00	SHAFT	1
50	347-5189-00	SPACER	1
51	017-0428-01	PL-LAMP(14V40mA PN9939U)	1
	017-0433-04	PL-LAMP(14V40mA PN9940U)	1
52	45-9939-AA	DCP ASS'Y(PN-9939U)	1
	45-9940-AA	DCP ASS'Y(PN-9940U)	1

■EXPLODED VIEW · PARTS LIST

◎ Main section for PN-9939U

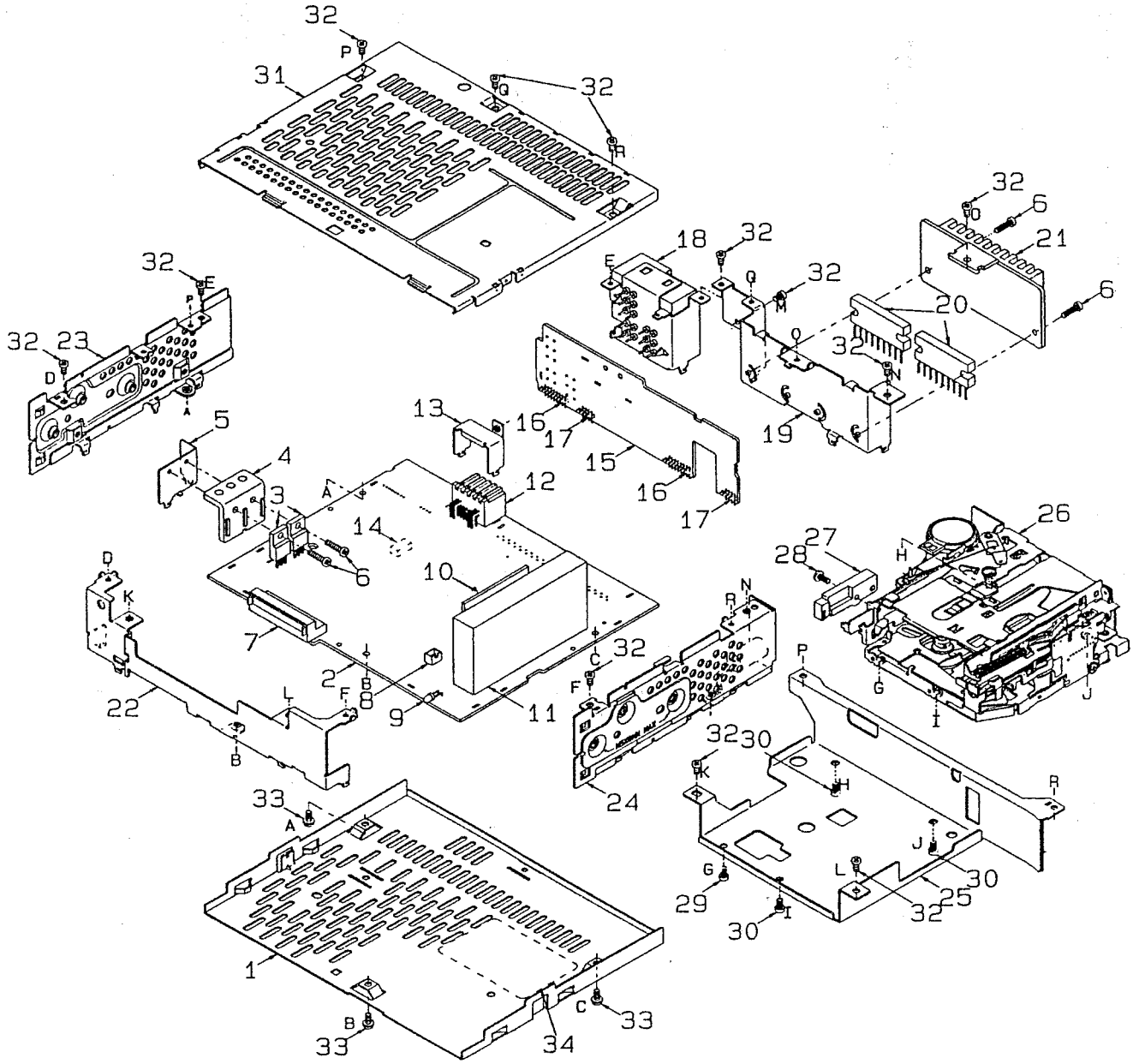


REF NO.	PART NO.	DESCRIPTION	QTY
1	331-1653-00	LOWER CASE	1
2	039-0549-00	MAIN PWB	1
3	103-2012-00	TRANSISTOR(2SD2012)	2
4	313-1630-00	HEAT SINK(TR)	1
5	331-1693-00	TR HOLDER	1
6	714-2610-81	MACHINE SCREW	4
7	074-1058-00	OUTLET SOCKET(DCP)	1
8	076-9000-03	PLUG(MECH)	1
9	001-0659-00	LED(SLP-181B-51)	1
10	80-2076-NH	TUNER PACK	1
11	354-4220-00	CAP	1
12	039-0551-00	SUB PWB	1
13	076-0324-08	PLUG(8P)	2
14	074-0944-20	OUTLET SOCKET(S10,6)	1
15	331-1692-10	IC HOLDER(POWER)	1

REF NO.	PART NO.	DESCRIPTION	QTY
16	051-2009-00	POWER IC(TDA8561Q)	1
17	313-1631-00	HEAT SINK(POWER)	1
18	331-1685-00	FRONT PLATE	1
19	331-1683-00	SIDE CASE(L)	1
20	331-1682-00	SIDE CASE(R)	1
21	331-1689-00	MECH BRACKET	1
22	930-0701-81	TAPE MECHANISM(TOM-1-C)	1
23	335-4709-0L	SPACER(EJECT)	1
24	716-1619-00	SCREW(EJECT)	1
25	714-3005-47	MACHINE SCREW	1
26	714-3004-21	MACHINE SCREW	3
27	310-1583-10	UPPER CASE	1
28	714-2606-81	MACHINE SCREW	11
29	716-0878-00	IT SCREW	3
30	286-7990-11	SETPLATE	1

■EXPLODED VIEW · PARTS LIST

◎ Main section for PN-9940U



REF NO.	PART NO.	DESCRIPTION	QTY
1	311-1653-00	LOWER CASE	1
2	039-0546-00	MAIN PWB	1
3	103-2012-00	TRANSISTOR(2SD2012)	1
4	313-1630-00	HEAT SINK(TR)	1
5	331-1693-00	TR HOLDER	1
6	714-2610-81	MACHINE SCREW	4
7	074-1058-00	OUTLET SOCKET(DCP)	1
8	076-9000-03	PLUG(MECH)	1
9	001-0659-00	LED(SLP-181B-51)	1
10	039-0548-00	PRE PWB	1
11	80-2076-NH	TUNER PACK	1
12	074-1013-00	OUTLET SOCKET(A12)	1
13	331-1695-00	CONNECTOR HOLDER	1
14	345-4220-00	CAP	1
15	039-0547-00	SUB PWB	1
16	076-0324-04	PLUG(4P)	2
17	076-0324-08	PLUG(8P)	2

REF NO.	PART NO.	DESCRIPTION	QTY
18	074-0944-21	OUTLET SOCKET(S10,6)	1
19	331-1692-00	IC HOLDER(POWER)	1
20	051-0958-01	POWER IC(TA8205AH)	2
21	313-1629-00	HEAT SINK(POWER)	1
22	331-1685-00	FRONT PLATE	1
23	331-1683-00	SIDE CASE(L)	1
24	331-1682-00	SIDE CASE(R)	1
25	331-1689-00	MECH BRACKET	1
26	930-0703-81	TAPE MECHANISM(TOM-1-RM)	1
27	335-4709-0L	SPACER(EJECT)	1
28	716-1619-00	SCREW(EJECT)	1
29	714-3005-47	MACHINE SCREW	1
30	714-3004-21	MACHINE SCREW	3
31	310-1583-00	UPPER CASE	1
32	714-2606-81	MACHINE SCREW	12
33	716-0878-00	IT SCREW	3
34	286-7990-10	SETPLATE	1

■ PARTS LIST

Note) Several different parts of same reference number are alternative parts. One of those parts is used in the set.

◎MainP.W.B. section for PN-9939U

REF No.	PART No.	DESCRIPTION
C 101	183-1073-21	10V100uF
C 103	181-2253-62	50V2.2uF
C 104	178-2232-78	0.022uF
C 106	178-3332-78	0.033uF
C 107	178-2232-78	0.022uF
C 108	183-1053-61	50V1uF
C 119	178-2232-78	0.022uF
C 120	178-1022-78	1000pF
C 121	178-4722-78	4700pF
C 122	183-4763-11	6.3V47uF
C 123	178-1042-78	0.1uF
C 124	178-5612-78	560pF
C 125	178-1022-78	1000pF
C 126	176-4701-00	47pF CH
C 127	178-3312-78	330pF
C 128	183-4753-62	50V4.7uF
C 129	183-4753-62	50V4.7uF
C 130	183-2253-62	50V2.2uF
C 131	176-8201-00	82pF CH
C 132	178-1532-78	0.015uF
C 133	178-1532-78	0.015uF
C 134	183-4753-62	50V4.7uF
C 135	183-4753-62	50V4.7uF
C 136	178-1022-78	1000pF
C 137	172-3931-11	0.039uF
C 138	178-5622-78	5600pF
C 139	178-1022-78	1000pF
C 140	178-3322-78	3300pF
C 141	042-0200-00	10V 47uF
C 143	184-2273-22	10V220uF
C 144	184-1073-32	16V100uF
C 145	176-1007-00	10pF CH
C 146	178-1022-78	1000pF
C 148	176-1011-00	100pF CH
C 150	184-1073-32	16V100uF
C 151	178-3322-78	3300pF
C 301	042-0452-00	6.3V330uF
C 302	183-1073-21	10V100uF
C 303	183-1063-51	35V10uF
C 304	183-1063-51	35V10uF
C 305	176-5601-00	56pF CH
C 306	176-5601-00	56pF CH
C 307	183-1063-51	35V10uF
C 308	183-1063-51	35V10uF
C 309	183-4753-62	50V4.7uF
C 310	183-4753-62	50V4.7uF
C 311	178-3922-78	3900pF
C 312	178-3922-78	3900pF
C 313	178-3332-78	0.033uF
C 314	178-3332-78	0.033uF
C 315	183-1063-51	35V10uF
C 316	183-1063-51	35V10uF
C 317	178-1522-78	1500pF
C 318	178-1522-78	1500pF
C 319	178-1542-78	0.15uF
C 320	178-1542-78	0.15uF
C 321	178-1542-78	0.15uF
C 322	178-1542-78	0.15uF
C 323	183-1063-51	35V10uF
C 324	183-1063-51	35V10uF
C 325	183-1063-51	35V10uF
C 326	183-1063-51	35V10uF
C 327	183-4753-62	50V4.7uF
C 328	183-4753-62	50V4.7uF
C 329	183-4753-62	50V4.7uF
C 330	183-4753-62	50V4.7uF
C 331	183-1063-51	35V10uF
C 332	183-1063-51	35V10uF
C 333	183-1063-51	35V10uF
C 334	183-1063-51	35V10uF
C 335	183-1063-51	35V10uF
C 336	183-1063-51	35V10uF
C 337	183-1053-61	50V1uF
C 338	183-1053-61	50V1uF
C 339	183-1053-61	50V1uF

REF No.	PART No.	DESCRIPTION
C 340	183-1053-61	50V1uF
C 341	178-3322-78	3300pF
C 342	178-3322-78	3300pF
C 343	178-3322-78	3300pF
C 344	178-3322-78	3300pF
C 347	184-1083-22	10V1000uF
C 348	184-1083-22	10V1000uF
C 349	184-1083-22	10V1000uF
C 350	184-1083-22	10V1000uF
C 351	183-1073-21	10V100uF
C 352	183-4753-62	50V4.7uF
C 354	184-2263-61	50V22uF
C 355	184-2283-32	16V2200uF
C 356	183-4763-11	6.3V47uF
C 357	184-1073-32	16V100uF
C 358	172-1041-11	0.1uF
C 359	172-1041-11	0.1uF
C 360	172-1041-11	0.1uF
C 361	172-1041-11	0.1uF
C 401	183-1063-51	35V10uF
C 402	184-2273-22	10V220uF
C 404	184-1073-32	16V100uF
C 405	178-1532-78	0.015uF
C 406	178-1022-78	1000pF
C 407	184-4773-31	16V470uF
C 408	183-1063-31	16V10uF
C 409	042-0199-01	10V 22uF
C 410	172-2241-11	0.22uF
C 601	176-2201-00	22pF CH
C 602	176-2201-00	22pF CH
C 603	178-1042-78	0.1uF
C 604	178-1022-78	1000pF
C 605	178-1042-78	0.1uF
C 606	183-3363-21	10V33uF
C 607	176-1011-00	100pF CH
C 608	176-1011-00	100pF CH
C 609	176-1011-00	100pF CH
C 610	176-1011-00	100pF CH
C 611	178-1042-78	0.1uF
C 613	178-1022-78	1000pF
C 614	176-5601-00	56pF CH
C 615	178-1042-78	0.1uF
C 616	176-1011-00	100pF CH
C 701	173-6811-11	680pF
C 702	173-6811-11	680pF
C 703	183-4763-11	6.3V47uF
C 704	183-4763-11	6.3V47uF
C 705	183-1053-61	50V1uF
C 706	183-1053-61	50V1uF
C 707	178-2732-78	0.027uF
C 708	178-2732-78	0.027uF
C 709	183-1063-51	35V10uF
C 711	183-4753-62	50V4.7uF
C 712	183-4753-62	50V4.7uF
C 801	172-1041-11	0.1uF
C 803	172-1041-11	0.1uF
D 103	001-0376-49	MTZJ10A
D 103	001-0377-48	MA4091H
D 103	001-0400-48	HZS9.1JB3
D 104	001-0330-00	1SS119
D 106	001-0330-00	1SS119
D 107	001-0366-00	LTZ-MR15
D 301	001-0376-41	MTZJ7.5B
D 301	001-0377-40	MA4075L
D 301	001-0400-40	HZS7.5JB1
D 401	001-0376-70	MTZJ18C
D 401	001-0377-69	MA4180M
D 402	001-0330-00	1SS119
D 403	001-0376-48	MTZJ9.1C
D 403	001-0377-47	MA4091M
D 403	001-0400-47	MZS9.1JB2
D 404	001-0330-00	1SS119
D 405	001-0330-00	1SS119
D 406	001-0330-00	1SS119
D 407	001-0376-41	MTZJ7.5B

REF No.	PART No.	DESCRIPTION
D 407	001-0377-40	MA4075L
D 407	001-0400-40	HZS7.5JB1
D 408	001-0330-00	1SS119
D 409	001-0376-46	MTZJ9.1A
D 409	001-0377-45	MA4082H
D 409	001-0400-45	HZS8.2JB3
D 410	001-0377-43	MA4082L
D 411	001-0330-00	1SS119
D 412	001-0330-00	1SS119
D 413	001-0330-00	1SS119
D 414	001-0330-00	1SS119
D 604	001-0330-00	1SS119
D 610	001-0330-00	1SS119
D 613	001-0361-10	1SS198
D 614	001-0330-00	1SS119
D 616	001-0361-10	1SS198
D 617	001-0659-00	SLP-181B-51
D 801	001-0466-00	S5688B
D 801	001-0626-00	1A2
D 802	001-0466-00	S5688B
D 802	001-0626-00	1A2
IC 101	051-1819-00	SAA6579T
IC 301	051-0267-05	TC4066BF
IC 302	051-0422-51	NJM4558D
IC 303	051-0422-51	NJM4558D
IC 304	051-5000-00	LC7538NM
IC 305	051-1500-10	NJM2060D
IC 306	051-2009-00	TDA8561Q
IC 401	051-3201-00	AN77L06
IC 402	051-0869-00	MB3771P(-G)
IC 601	052-1303-50	uPD17006AGF-653-3B9
IC 602	051-1375-35	
IC 701	051-0301-01	uPC1228H
L 101	010-2003-04	
L 102	010-2230-00	
L 105	010-2330-12	2.2uH
L 106	010-2330-28	47uH
L 109	010-2330-28	47uH
L 110	010-2330-17	5.6uH
L 111	010-2330-12	2.2uH
Q 101	102-3624-00	2SC3624
Q 102	102-3624-00	2SC3624
Q 103	125-2004-03	RN1403
Q 104	125-2004-03	RN1403
Q 105	125-2004-04	RN1404
Q 106	100-1298-00	2SA1298
Q 107	100-1037-00	2SA1037
Q 107	100-1162-00	2SA1162
Q 108	102-3326-00	2SC3326
Q 108	103-1306-00	2SD1306
Q 109	100-1037-00	2SA1037
Q 109	100-1162-00	2SA1162
Q 110	102-3624-00	2SC3624
Q 111	102-3624-00	2SC3624
Q 112	125-2004-04	RN1404
Q 113	125-2004-02	RN1402
Q 119	125-2004-03	RN1403
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Q 302	125-4001-00	XN1504
Q 303	125-0006-00	UN2110
Q 304	102-2412-00	2SC2412
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Q 305	125-0002-02	RN2402
Q 306	125-2004-04	RN1404
Q 307	125-0002-04	RN2404
Q 308	125-2004-03	RN1403
Q 309	125-0002-04	RN2404
Q 310	125-2004-03	RN1403
Q 401	103-1858-00	2SD1858
Q 402	125-2004-02	RN1402
Q 403	125-2004-03	RN1403
Q 404	103-2012-00	2SD2012
Q 405	100-1037-00	2SA1037

REF No.	PART No.	DESCRIPTION
Q 405	100-1162-00	2SA1162
Q 406	125-0002-02	RN2402
Q 407	125-2004-03	RN1403
Q 408	125-0002-02	RN2402
Q 409	125-2004-03	RN1403
Q 410	100-1298-00	2SA1298
Q 411	103-2012-00	2SD2012
Q 412	125-2004-03	RN1403
Q 413	102-2412-00	2SC2412
Q 413	102-2712-00	2SC2712
Q 414	100-1428-00	2SA1428
Q 415	125-2004-03	RN1403
Q 416	125-0002-04	RN2404
Q 417	100-1428-00	2SA1428
Q 418	125-2004-03	RN1403
Q 419	100-1037-00	2SA1037
Q 419	100-1162-00	2SA1162
Q 601	125-2004-04	RN1404
Q 602	125-0002-02	RN2402
Q 603	125-2004-03	RN1403
Q 604	125-2004-02	RN1402
R 101	117-1031-10	1/10W 10kohm
R 102	117-5621-10	1/10W 5.6kohm
R 105	117-2221-10	1/10W 2.2kohm
R 108	117-4711-10	1/10W 470ohm
R 110	117-1021-10	1/10W 1kohm
R 113	117-1531-10	1/10W 15kohm
R 118	117-4721-10	1/10W 4.7kohm
R 119	117-1031-10	1/10W 10kohm
R 120	117-1041-10	1/10W 100kohm
R 121	117-3321-10	1/10W 3.3kohm
R 122	117-1031-10	1/10W 10kohm
R 123	117-1021-10	1/10W 1kohm
R 126	117-2221-10	1/10W 2.2kohm
R 127	117-2231-10	1/10W 22kohm
R 128	117-3321-10	1/10W 3.3kohm
R 129	117-3321-10	1/10W 3.3kohm
R 130	117-3321-10	1/10W 3.3kohm
R 131	117-3321-10	1/10W 3.3kohm
R 132	117-6821-10	1/10W 6.8kohm
R 133	117-1021-10	1/10W 1kohm
R 134	117-6821-10	1/10W 6.8kohm
R 135	117-1021-10	1/10W 1kohm
R 136	117-1031-10	1/10W 10kohm
R 137	117-1031-10	1/10W 10kohm
R 138	117-1031-10	1/10W 10kohm
R 146	117-1031-10	1/10W 10kohm
R 147	117-1031-10	1/10W 10kohm
R 148	111-4791-91	1/4WS 4.7ohm
R 150	117-1031-10	1/10W 10kohm
R 151	117-1011-10	1/10W 100ohm
R 301	117-1031-10	1/10W 10kohm
R 302	117-1031-10	1/10W 10kohm
R 303	117-3321-10	1/10W 3.3kohm
R 304	117-3921-10	1/10W 3.9kohm
R 305	117-5631-10	1/10W 56kohm
R 306	117-2221-10	1/10W 2.2kohm
R 307	117-1041-10	1/10W 100kohm

REF No.	PART No.	DESCRIPTION
R 308	117-5631-10	1/10W 56kohm
R 309	117-2221-10	1/10W 2.2kohm
R 310	117-1041-10	1/10W 100kohm
R 311	117-1541-10	1/10W 150kohm
R 312	117-1541-10	1/10W 150kohm
R 313	117-1051-10	1/10W 1Mohm
R 314	117-1051-10	1/10W 1Mohm
R 315	117-1541-10	1/10W 150kohm
R 316	117-1541-10	1/10W 150kohm
R 317	117-1041-10	1/10W 100kohm
R 318	117-1041-10	1/10W 100kohm
R 319	117-1831-10	1/10W 18kohm
R 320	117-1831-10	1/10W 18kohm
R 321	117-2221-10	1/10W 2.2kohm
R 322	117-2221-10	1/10W 2.2kohm
R 323	117-2221-10	1/10W 2.2kohm
R 324	117-2221-10	1/10W 2.2kohm
R 325	117-2221-10	1/10W 2.2kohm
R 326	117-2221-10	1/10W 2.2kohm
R 327	117-2221-10	1/10W 2.2kohm
R 328	117-2221-10	1/10W 2.2kohm
R 329	117-2221-10	1/10W 2.2kohm
R 330	117-2221-10	1/10W 2.2kohm
R 331	117-2221-10	1/10W 2.2kohm
R 332	117-2221-10	1/10W 2.2kohm
R 335	117-2221-10	1/10W 2.2kohm
R 336	117-2221-10	1/10W 2.2kohm
R 337	117-2221-10	1/10W 2.2kohm
R 338	117-4731-10	1/10W 47kohm
R 339	117-1021-10	1/10W 1kohm
R 341	117-4711-10	1/10W 470ohm
R 342	117-1031-10	1/10W 10kohm
R 343	117-1041-10	1/10W 100kohm
R 346	117-1021-10	1/10W 1kohm
R 347	117-1021-10	1/10W 1kohm
R 348	117-1021-10	1/10W 1kohm
R 349	117-1021-10	1/10W 1kohm
R 350	117-1021-10	1/10W 1kohm
R 352	117-1041-10	1/10W 100kohm
R 401	117-4711-10	1/10W 470ohm
R 402	117-3321-10	1/10W 3.3kohm
R 403	117-1031-10	1/10W 10kohm
R 404	117-4721-10	1/10W 4.7kohm
R 405	111-2211-81	1/2WS 220ohm
R 406	117-2231-10	1/10W 22kohm
R 407	117-1021-10	1/10W 1kohm
R 408	117-1241-10	1/10W 120kohm
R 409	117-3931-10	1/10W 39kohm
R 410	117-5631-10	1/10W 56kohm
R 411	117-1031-10	1/10W 10kohm
R 412	111-5611-81	1/2WS 560ohm
R 413	117-1031-10	1/10W 10kohm
R 414	117-1031-10	1/10W 10kohm
R 415	117-6821-10	1/10W 6.8kohm
R 416	117-4721-10	1/10W 4.7kohm
R 417	117-1541-10	1/10W 150kohm
R 418	117-1051-10	1/10W 1Mohm
R 419	117-1541-10	1/10W 150kohm

REF No.	PART No.	DESCRIPTION
R 420	117-1831-10	1/10W 18kohm
R 421	117-1041-10	1/10W 100kohm
R 422	111-6811-81	1/2WS 680ohm
R 423	117-2231-10	1/10W 22kohm
R 424	111-6811-81	1/2WS 680ohm
R 425	117-3321-10	1/10W 3.3kohm
R 426	117-2231-10	1/10W 22kohm
R 427	117-1031-10	1/10W 10kohm
R 428	111-1021-91	1/4WS 1kohm
R 430	111-4791-81	1/2WS 4.7ohm
R 434	117-1001-10	1/10W 10ohm
R 601	117-1041-10	1/10W 100kohm
R 602	117-1041-10	1/10W 100kohm
R 603	117-1041-10	1/10W 100kohm
R 604	117-1041-10	1/10W 100kohm
R 605	117-1021-10	1/10W 1kohm
R 606	117-1041-10	1/10W 100kohm
R 607	117-1041-10	1/10W 100kohm
R 608	117-1041-10	1/10W 100kohm
R 609	117-1041-10	1/10W 100kohm
R 610	117-1041-10	1/10W 100kohm
R 611	117-1041-10	1/10W 100kohm
R 612	111-1031-91	1/4WS 10kohm
R 613	117-3321-10	1/10W 3.3kohm
R 614	117-1031-10	1/10W 10kohm
R 615	117-1031-10	1/10W 10kohm
R 616	117-4721-10	1/10W 4.7kohm
R 617	117-4711-10	1/10W 470ohm
R 618	117-1021-10	1/10W 1kohm
R 619	117-1021-10	1/10W 1kohm
R 620	117-1021-10	1/10W 1kohm
R 621	117-1021-10	1/10W 1kohm
R 622	117-1021-10	1/10W 1kohm
R 623	117-4731-10	1/10W 47kohm
R 624	117-4731-10	1/10W 47kohm
R 625	117-1031-10	1/10W 10kohm
R 627	117-1031-10	1/10W 10kohm
R 628	117-1001-10	1/10W 10ohm
R 629	117-1041-10	1/10W 100kohm
R 630	111-1051-91	1/4WS 1Mohm
R 631	117-1021-10	1/10W 1kohm
R 701	117-3331-10	1/10W 33kohm
R 702	117-3331-10	1/10W 33kohm
R 703	117-1511-10	1/10W 150ohm
R 704	117-1511-10	1/10W 150ohm
R 705	117-4721-10	1/10W 4.7kohm
R 706	117-4721-10	1/10W 4.7kohm
R 707	117-1241-10	1/10W 120kohm
R 708	117-1241-10	1/10W 120kohm
R 709	117-4701-10	1/10W 47ohm
R 803	111-4711-81	1/2WS 470ohm
SUP 101	060-0122-10	DSP-201M-S00B
VR 102	012-5203-63	470kohm
VR 103	012-5203-56	10kohm
X 102	061-3013-00	4.33MHz
X 601	061-1064-00	4.5MHz

◎ Switch P.W.B. section for PN-9939U of escutcheon

REF No.	PART No.	DESCRIPTION
C 901	178-1042-78	0.1uF
C 902	178-1042-78	0.1uF
D 901	001-0524-00	HN2D01F
D 901	001-0525-00	IMN10
D 902	001-0524-00	HN2D01F
D 902	001-0525-00	IMN10
IC 901	051-6001-01	uPD16431AGC-7ET
LD 901	001-0518-00	BR1101W
PL 901	017-0429-04	8V 105mA
PL 902	017-0429-04	8V 105mA
PL 903	017-0433-04	14V 40mA
PL 904	017-0428-07	14V 40mA

REF No.	PART No.	DESCRIPTION
PL 905	017-0433-04	14V 40mA
PL 906	017-0433-04	14V 40mA
PL 907	017-0428-01	14V 40mA
R 901	117-1031-10	1/10W 10kohm
R 902	117-1041-10	1/10W 100kohm
R 903	117-1031-10	1/10W 10kohm
SW 901	013-3978-01	
SW 902	013-3978-01	
SW 903	013-3978-01	
SW 904	013-3978-01	
SW 905	013-3978-01	
SW 906	013-3978-01	

REF No.	PART No.	DESCRIPTION
SW 907	013-3978-01	
SW 908	013-3978-01	
SW 909	013-3978-01	
SW 910	013-3978-01	
SW 911	013-3978-01	
SW 912	013-3978-01	
SW 913	013-3978-01	
SW 914	013-3978-01	
SW 915	013-3978-01	
VR 901	016-0010-02	

◎Sub P.W.B. section for PN-9939U

REF No.	PART No.	DESCRIPTION
C 804	171-1023-06	1000pF
D 803	001-0334-30	RL202

REF No.	PART No.	DESCRIPTION
L 801	009-0633-64	
R 801	111-1021-91	1/4WS 1kohm

REF No.	PART No.	DESCRIPTION
R 802	114-2291-11	1W 2.2ohm

◎MainP.W.B. section for PN-9940U

REF No.	PART No.	DESCRIPTION
C 101	184-4773-21	10V470uF
C 102	172-6831-11	0.068uF
C 103	181-4753-52	35V4.7uF
C 104	178-2232-78	0.022uF
C 105	178-1032-78	0.01uF
C 106	178-3332-78	0.033uF
C 107	178-2232-78	0.022uF
C 108	183-1053-61	50V1uF
C 109	176-1011-00	100pF CH
C 110	176-1011-00	100pF CH
C 111	176-1011-00	100pF CH
C 112	176-1011-00	100pF CH
C 113	178-2232-78	0.022uF
C 114	176-1011-00	100pF CH
C 115	183-4763-11	6.3V47uF
C 116	178-8212-78	820pF
C 117	176-1501-00	15pF CH
C 118	176-1801-00	18pF CH
C 119	178-2232-78	0.022uF
C 120	178-1022-78	1000pF
C 121	178-4722-78	4700pF
C 122	183-4763-11	6.3V47uF
C 123	178-1042-78	0.1uF
C 124	178-5612-78	560pF
C 125	178-1022-78	1000pF
C 126	176-4701-00	47pF CH
C 127	178-3312-78	330pF
C 128	183-3343-61	50V0.33uF
C 129	183-3343-61	50V0.33uF
C 130	183-2253-61	50V2.2uF
C 131	176-8201-00	82pF CH
C 132	178-1032-78	0.01uF
C 133	178-1032-78	0.01uF
C 134	183-1063-51	35V10uF
C 135	183-1053-61	50V1uF
C 136	183-1053-61	50V1uF
C 137	178-2732-78	0.027uF
C 138	178-3312-78	330pF
C 139	178-5632-78	0.056uF
C 140	184-1073-22	10V100uF
C 141	184-2273-22	10V220uF
C 142	184-1073-22	10V100uF
C 143	176-1011-00	100pF CH
C 144	178-1022-78	1000pF
C 151	178-3322-78	3300pF
C 170	178-2232-78	0.022uF
C 175	178-1042-78	0.1uF
C 176	178-4712-78	470pF
C 177	178-4712-78	470pF
C 178	178-2222-78	2200pF
C 179	178-2232-78	0.022uF
C 201	178-2232-78	0.022uF
C 202	183-2263-31	16V22uF
C 203	178-1042-78	0.1uF
C 204	178-2212-78	220pF
C 205	178-4712-78	470pF
C 301	183-1063-51	35V10uF
C 302	183-1063-51	35V10uF
C 303	183-3353-61	50V3.3uF
C 304	183-4743-61	50V0.47uF
C 305	183-4743-61	50V0.47uF
C 306	183-4743-61	50V0.47uF
C 307	183-4743-61	50V0.47uF
C 308	183-3353-61	50V3.3uF
C 309	183-4763-31	16V47uF
C 310	178-1042-78	0.1uF
C 311	183-1053-61	50V1uF
C 312	183-1053-61	50V1uF

REF No.	PART No.	DESCRIPTION
C 313	182-1066-23	10V10uF NP
C 314	182-1066-23	10V10uF NP
C 315	182-1066-23	10V10uF NP
C 316	182-1066-23	10V10uF NP
C 317	183-1063-31	16V10uF
C 318	183-1063-31	16V10uF
C 319	178-8222-78	8200pF
C 320	178-8222-78	8200pF
C 321	183-1063-31	16V10uF
C 322	183-1063-51	35V10uF
C 323	178-5622-78	5600pF
C 324	178-5622-78	5600pF
C 325	178-1522-78	1500pF
C 326	178-1522-78	1500pF
C 327	176-4701-00	47pF CH
C 328	176-4701-00	47pF CH
C 329	178-1022-78	1000pF
C 330	178-1022-78	1000pF
C 331	183-2253-61	50V2.2uF
C 332	183-2253-61	50V2.2uF
C 333	176-1011-00	100pF CH
C 334	176-1011-00	100pF CH
C 335	178-1242-78	0.12uF
C 336	178-1242-78	0.12uF
C 337	176-4701-00	47pF CH
C 338	176-4701-00	47pF CH
C 339	183-1063-51	35V10uF
C 340	183-1063-51	35V10uF
C 341	183-4763-31	16V47uF
C 342	183-2253-61	50V2.2uF
C 343	178-4732-78	0.047uF
C 344	178-1032-78	0.01uF
C 345	183-4763-31	16V47uF
C 346	183-4763-31	16V47uF
C 347	183-1063-31	16V10uF
C 348	183-1063-31	16V10uF
C 349	183-1063-31	16V10uF
C 350	183-1063-51	35V10uF
C 351	176-2201-00	22pF CH
C 352	176-2201-00	22pF CH
C 353	176-2201-00	22pF CH
C 354	176-2201-00	22pF CH
C 355	183-4753-51	35V4.7uF
C 356	183-4753-62	50V4.7uF
C 357	183-4753-62	50V4.7uF
C 358	183-4753-62	50V4.7uF
C 359	183-3363-21	10V33uF
C 360	183-3353-61	50V3.3uF
C 361	183-3353-61	50V3.3uF
C 362	183-3353-61	50V3.3uF
C 363	183-3353-61	50V3.3uF
C 366	178-1022-78	1000pF
C 367	178-1022-78	1000pF
C 368	183-3363-21	10V33uF
C 369	183-3363-21	10V33uF
C 370	183-3363-21	10V33uF
C 371	183-3363-21	10V33uF
C 372	178-1022-78	1000pF
C 373	178-1022-78	1000pF
C 374	184-1073-22	10V100uF
C 375	183-1073-21	10V100uF
C 376	178-1242-78	0.12uF
C 377	178-1242-78	0.12uF
C 378	178-1242-78	0.12uF
C 379	178-1242-78	0.12uF
C 380	178-1242-78	0.12uF
C 381	178-1242-78	0.12uF
C 382	178-1242-78	0.12uF

REF No.	PART No.	DESCRIPTION
C 383	178-1242-78	0.12uF
C 384	042-0447-00	16V2200uF
C 385	042-0447-00	16V2200uF
C 401	183-1063-51	35V10uF
C 402	183-1063-51	35V10uF
C 403	183-1073-21	10V100uF
C 404	183-4763-31	16V47uF
C 406	183-4763-31	16V47uF
C 407	183-1073-21	10V100uF
C 408	183-1063-31	16V10uF
C 409	042-0403-01	16V10uF
C 410	172-2241-11	0.22uF
C 411	183-4763-31	16V47uF
C 412	184-4773-31	16V470uF
C 501	178-1022-78	1000pF
C 502	178-1022-78	1000pF
C 503	178-1022-78	1000pF
C 504	178-2232-78	0.022uF
C 509	178-1022-78	1000pF
C 601	178-1032-78	0.01uF
C 602	178-1042-78	0.1uF
C 603	178-1042-78	0.1uF
C 604	183-1053-61	50V1uF
C 605	178-1042-78	0.1uF
C 607	178-1042-78	0.1uF
C 608	178-2232-78	0.022uF
C 609	183-1063-51	35V10uF
C 610	178-2232-78	0.022uF
C 611	176-1011-00	100pF CH
C 612	178-4712-78	470pF
C 613	178-2212-78	220pF
C 614	178-2212-78	220pF
C 615	178-2232-78	0.022uF
D 103	001-0376-49	MTZJ10A
D 103	001-0377-48	MA4091H
D 103	001-0400-48	HZS9.1JB3
D 104	001-0516-00	MA111
D 105	001-0354-00	MA151WK
D 105	001-0356-00	1SS184
D 105	001-0506-00	DAN202K
D 106	001-0330-00	1SS119
D 107	001-0366-00	LTZ-MR15
D 108	001-0377-54	MA4110H
D 201	001-0516-00	MA111
D 202	001-0516-00	MA111
D 203	001-0516-00	MA111
D 204	001-0516-00	MA111
D 401	001-0354-00	MA151WK
D 401	001-0356-00	1SS184
D 401	001-0506-00	DAN202K
D 402	001-0376-41	MTZJ7.5B
D 402	001-0377-40	MA4075L
D 402	001-0400-40	HZS7.5JB1
D 403	001-0376-49	MTZJ10A
D 403	001-0377-48	MA4091H
D 403	001-0400-48	HZS9.1JB3
D 405	001-0330-00	1SS119
D 406	001-0330-00	1SS119
D 409	001-0377-45	MA4082H
D 410	001-0377-43	MA4082L
D 411	001-0330-00	1SS119
D 501	001-0589-00	1SS145
D 502	001-0589-00	1SS145
D 503	001-0421-38	MTZJ36
D 504	001-0376-45	MTZJ8.2C
D 504	001-0377-44	MA4082M
D 504	001-0400-45	HZS8.2JB3
D 512	001-0466-00	S5688B

REF No.	PART No.	DESCRIPTION
D 512	001-0626-00	1A2
D 513	001-0466-00	S5688B
D 513	001-0626-00	1A2
D 601	001-0466-00	S5688B
D 601	001-0626-00	1A2
D 602	001-0466-00	S5688B
D 602	001-0626-00	1A2
D 603	001-0376-65	MTZJ16A
D 603	001-0377-63	MA4150M
D 604	001-0361-10	1SS198
D 605	001-0516-00	MA111
D 606	001-0659-00	SLP-181B-51
IC 101	051-6201-00	LC72146M
IC 102	051-1819-00	SAA6579T
IC 103	051-0556-01	NJM2058M
IC 201	052-1301-50	uPD78014GC-684-AB8
IC 202	051-1051-05	TC74HC573A
IC 202	051-1051-35	MC74HC573A
IC 203	051-1046-46	LC3517BML-12
IC 301	051-5005-00	SN761024DL
IC 302	051-1500-00	NJM2060M
IC 303	051-1500-00	NJM2060M
IC 304	051-0958-01	TA8205AH
IC 305	051-0958-01	TA8205AH
IC 401	051-1905-00	AN77L05
IC 601	051-0869-55	NJM2103M
IC 602	051-1375-35	
IC 603	051-1556-00	S-80740AN
IC 604	052-3127-00	uPD78054GC103-3B9
L 101	010-2003-04	
L 102	010-2230-00	0.15uH
L 105	010-2330-12	2.2uH
L 106	010-2330-28	47uH
L 107	010-2230-38	220uH
L 108	010-2330-12	2.2uH
L 109	010-2230-38	220uH
L 201	010-2330-12	2.2uH
L 601	010-2330-24	22uH
Q 101	102-3624-00	2SC3624
Q 102	102-3624-00	2SC3624
Q 103	125-2004-03	RN1403
Q 104	125-2004-03	RN1403
Q 105	125-2004-03	RN1403
Q 106	100-1298-00	2SA1298
Q 107	125-0002-06	RN2406
Q 107	125-0014-06	DTA143ZK
Q 108	102-3326-00	2SC3326
Q 108	103-1306-00	2SD1306
Q 108	103-1328-00	2SD1328
Q 109	100-1037-00	2SA1037
Q 109	100-1162-00	2SA1162
Q 110	100-1298-00	2SA1298
Q 111	125-2004-02	RN1402
Q 112	125-2004-02	RN1402
Q 113	125-2004-02	RN1402
Q 301	125-4001-00	XN1504
Q 302	125-4001-00	XN1504
Q 401	125-0006-00	UN2110
Q 402	125-9002-02	RN4602
Q 402	125-9003-02	IMD3
Q 403	125-2004-03	RN1403
Q 404	103-2012-00	2SD2012
Q 405	101-1188-00	2SB1188
Q 406	125-2004-02	RN1402
Q 407	125-0013-07	RN2427
Q 408	125-2004-02	RN1402
Q 409	100-1428-00	2SA1428
Q 410	125-2004-02	RN1402
Q 411	103-2012-00	2SD2012
Q 412	125-2004-02	RN1402
Q 413	101-1188-00	2SB1188
Q 414	100-1037-00	2SA1037
Q 414	100-1162-00	2SA1162
Q 415	100-1428-00	2SA1428
Q 416	102-2412-00	2SC2412

REF No.	PART No.	DESCRIPTION
Q 416	102-2712-00	2SC2712
Q 417	100-1428-00	2SA1428
Q 418	125-2004-02	RN1402
Q 502	102-2412-00	2SC2412
Q 502	102-2712-00	2SC2712
Q 503	125-9006-00	IMX1
Q 503	125-9007-00	HN1C01F
Q 504	102-2412-00	2SC2412
Q 504	102-2712-00	2SC2712
Q 507	125-9002-02	RN4602
Q 507	125-9003-02	IMD3
Q 514	102-2412-00	2SC2412
Q 514	102-2712-00	2SC2712
Q 601	125-2004-04	RN1404
Q 601	125-2031-04	MUN2213
Q 602	125-0002-02	RN2402
Q 603	125-2004-04	RN1404
Q 603	125-2031-04	MUN2213
Q 604	125-0002-02	RN2402
Q 605	125-0002-02	RN2402
Q 606	125-0002-02	RN2402
Q 607	125-2004-02	RN1402
Q 608	100-1428-00	2SA1428
Q 609	125-2004-06	RN1406
Q 609	125-2020-06	DTC143ZK
R 101	117-5621-10	1/10W 5.6kohm
R 102	117-3321-10	1/10W 3.3kohm
R 104	117-6821-10	1/10W 6.8kohm
R 105	117-2221-10	1/10W 2.2kohm
R 108	117-2211-10	1/10W 220ohm
R 109	117-1021-10	1/10W 1kohm
R 110	117-1021-10	1/10W 1kohm
R 111	117-1031-10	1/10W 10kohm
R 112	117-3911-10	1/10W 390ohm
R 113	117-1231-10	1/10W 12kohm
R 114	117-5651-10	1/10W 5.6Mohm
R 115	117-1031-10	1/10W 10kohm
R 116	117-2221-10	1/10W 2.2kohm
R 118	117-2221-10	1/10W 2.2kohm
R 119	117-1031-10	1/10W 10kohm
R 120	117-1041-10	1/10W 100kohm
R 121	117-2221-10	1/10W 2.2kohm
R 122	117-1031-10	1/10W 10kohm
R 123	117-1021-10	1/10W 1kohm
R 124	117-2221-10	1/10W 2.2kohm
R 125	117-1031-10	1/10W 10kohm
R 126	117-2221-10	1/10W 2.2kohm
R 127	117-3331-10	1/10W 33kohm
R 128	117-3321-10	1/10W 3.3kohm
R 129	117-3321-10	1/10W 3.3kohm
R 130	117-6821-10	1/10W 6.8kohm
R 132	117-1031-10	1/10W 10kohm
R 133	117-1231-10	1/10W 12kohm
R 134	117-1041-10	1/10W 100kohm
R 135	117-1031-10	1/10W 10kohm
R 136	117-1231-10	1/10W 12kohm
R 137	117-1031-10	1/10W 10kohm
R 138	117-4721-10	1/10W 4.7kohm
R 139	117-1231-10	1/10W 12kohm
R 140	117-2221-10	1/10W 2.2kohm
R 141	117-4721-10	1/10W 4.7kohm
R 146	117-1031-10	1/10W 10kohm
R 150	117-1011-10	1/10W 100ohm
R 201	117-1041-10	1/10W 100kohm
R 202	117-1041-10	1/10W 100kohm
R 203	117-4721-10	1/10W 4.7kohm
R 208	117-1031-10	1/10W 10kohm
R 210	117-3321-10	1/10W 3.3kohm
R 211	117-1021-10	1/10W 1kohm
R 212	117-6841-10	1/10W 680kohm
R 213	117-1021-10	1/10W 1kohm
R 214	117-1021-10	1/10W 1kohm
R 215	117-1021-10	1/10W 1kohm
R 216	117-4731-10	1/10W 47kohm
R 217	117-4731-10	1/10W 47kohm

REF No.	PART No.	DESCRIPTION
R 218	117-1031-10	1/10W 10kohm
R 231	117-1021-10	1/10W 1kohm
R 232	117-1021-10	1/10W 1kohm
R 233	117-1021-10	1/10W 1kohm
R 301	117-1231-10	1/10W 12kohm
R 302	117-6821-10	1/10W 6.8kohm
R 303	117-6821-10	1/10W 6.8kohm
R 304	117-1231-10	1/10W 12kohm
R 305	117-1031-10	1/10W 10kohm
R 306	117-1031-10	1/10W 10kohm
R 307	117-2231-10	1/10W 22kohm
R 308	117-2231-10	1/10W 22kohm
R 313	117-3011-10	1/10W 300ohm
R 314	117-3011-10	1/10W 300ohm
R 315	117-1011-10	1/10W 100ohm
R 316	117-1011-10	1/10W 100ohm
R 317	032-0106-15	100kohm
R 318	032-0106-15	100kohm
R 319	032-0106-15	100kohm
R 320	032-0106-15	100kohm
R 321	117-2721-10	1/10W 2.7kohm
R 322	117-2721-10	1/10W 2.7kohm
R 323	117-1011-10	1/10W 100ohm
R 324	117-1011-10	1/10W 100ohm
R 325	032-0106-07	18kohm
R 326	032-0106-07	18kohm
R 327	032-0106-07	18kohm
R 328	032-0106-07	18kohm
R 329	117-1031-10	1/10W 10kohm
R 330	117-1031-10	1/10W 10kohm
R 331	117-4731-10	1/10W 47kohm
R 332	117-4731-10	1/10W 47kohm
R 333	117-2231-10	1/10W 22kohm
R 334	117-2231-10	1/10W 22kohm
R 335	117-6821-10	1/10W 6.8kohm
R 336	117-6821-10	1/10W 6.8kohm
R 337	117-6821-10	1/10W 6.8kohm
R 338	117-6821-10	1/10W 6.8kohm
R 339	117-2231-10	1/10W 22kohm
R 340	117-2231-10	1/10W 22kohm
R 341	117-1021-10	1/10W 1kohm
R 342	117-1021-10	1/10W 1kohm
R 343	117-1021-10	1/10W 1kohm
R 344	117-1021-10	1/10W 1kohm
R 345	117-2221-10	1/10W 2.2kohm
R 346	117-2221-10	1/10W 2.2kohm
R 347	117-2221-10	1/10W 2.2kohm
R 348	117-2221-10	1/10W 2.2kohm
R 349	117-1031-10	1/10W 10kohm
R 350	117-1031-10	1/10W 10kohm
R 351	117-1031-10	1/10W 10kohm
R 352	117-1031-10	1/10W 10kohm
R 353	117-5121-10	1/10W 5.1kohm
R 354	117-5121-10	1/10W 5.1kohm
R 355	117-5121-10	1/10W 5.1kohm
R 356	117-5121-10	1/10W 5.1kohm
R 357	117-1821-10	1/10W 1.8kohm
R 358	117-1821-10	1/10W 1.8kohm
R 359	117-1821-10	1/10W 1.8kohm
R 361	117-4721-10	1/10W 4.7kohm
R 363	117-1021-10	1/10W 1kohm
R 365	117-4711-10	1/10W 470ohm
R 366	117-4711-10	1/10W 470ohm
R 367	117-4711-10	1/10W 470ohm
R 368	117-4711-10	1/10W 470ohm
R 369	117-2291-10	1/10W 2.2ohm
R 370	117-2291-10	1/10W 2.2ohm
R 371	117-2291-10	1/10W 2.2ohm
R 372	117-2291-10	1/10W 2.2ohm
R 373	117-2291-10	1/10W 2.2ohm
R 374	117-2291-10	1/10W 2.2ohm
R 376	117-2291-10	1/10W 2.2ohm
R 401	117-4731-10	1/10W 47kohm
R 402	117-4721-10	1/10W 4.7kohm
R 403	117-2231-10	1/10W 22kohm

REF No.	PART No.	DESCRIPTION
R 404	117-4721-10	1/10W 4.7kohm
R 405	117-1021-10	1/10W 1kohm
R 406	118-4711-10	1/2W 470ohm
R 408	118-6811-10	1/2W 680ohm
R 409	117-2231-10	1/10W 22kohm
R 410	117-2231-10	1/10W 22kohm
R 411	118-6811-10	1/2W 680ohm
R 412	118-5611-10	1/2W 560ohm
R 413	111-2201-91	1/4WS 22ohm
R 414	117-4731-10	1/10W 47kohm
R 415	118-1001-10	1/2W 10ohm
R 416	117-4721-10	1/10W 4.7kohm
R 417	117-5621-10	1/10W 5.6kohm
R 418	118-4792-10	1/2W 4.7ohm
R 419	117-2231-10	1/10W 22kohm
R 420	117-1021-10	1/10W 1kohm
R 421	118-6811-10	1/2W 680ohm
R 422	118-6811-10	1/2W 680ohm
R 501	117-5631-10	1/10W 56kohm
R 502	117-1031-10	1/10W 10kohm
R 503	117-5621-10	1/10W 5.6kohm
R 504	117-5621-10	1/10W 5.6kohm
R 505	117-5631-10	1/10W 56kohm
R 506	117-5631-10	1/10W 56kohm
R 507	117-1031-10	1/10W 10kohm
R 508	117-1031-10	1/10W 10kohm
R 510	118-4711-10	1/2W 470ohm
R 511	117-5631-10	1/10W 56kohm
R 512	117-1031-10	1/10W 10kohm
R 515	117-1021-10	1/10W 1kohm
R 530	117-4731-10	1/10W 47kohm

REF No.	PART No.	DESCRIPTION
R 538	117-1041-10	1/10W 100kohm
R 539	117-3921-10	1/10W 3.9kohm
R 540	117-2231-10	1/10W 22kohm
R 541	117-2221-10	1/10W 2.2kohm
R 560	117-1821-10	1/10W 1.8kohm
R 575	117-2291-10	1/10W 2.2ohm
R 601	117-1041-10	1/10W 100kohm
R 602	117-5631-10	1/10W 56kohm
R 603	117-1231-10	1/10W 12kohm
R 604	117-1241-10	1/10W 120kohm
R 605	117-1031-10	1/10W 10kohm
R 606	117-2221-10	1/10W 2.2kohm
R 607	117-1031-10	1/10W 10kohm
R 608	117-1041-10	1/10W 100kohm
R 609	117-1041-10	1/10W 100kohm
R 610	117-4731-10	1/10W 47kohm
R 612	117-4731-10	1/10W 47kohm
R 613	117-1041-10	1/10W 100kohm
R 614	117-1041-10	1/10W 100kohm
R 615	117-4731-10	1/10W 47kohm
R 616	117-4731-10	1/10W 47kohm
R 617	117-4721-10	1/10W 4.7kohm
R 618	117-2231-10	1/10W 22kohm
R 619	117-2221-10	1/10W 2.2kohm
R 620	117-4721-10	1/10W 4.7kohm
R 621	117-2221-10	1/10W 2.2kohm
R 623	117-2221-10	1/10W 2.2kohm
R 624	117-4721-10	1/10W 4.7kohm
R 625	117-2221-10	1/10W 2.2kohm
R 628	117-1031-10	1/10W 10kohm
R 630	117-1031-10	1/10W 10kohm

REF No.	PART No.	DESCRIPTION
R 631	117-1021-10	1/10W 1kohm
R 632	117-4721-10	1/10W 4.7kohm
R 633	117-1041-10	1/10W 100kohm
R 634	117-1031-10	1/10W 10kohm
R 635	117-4711-10	1/10W 470ohm
R 636	117-4711-10	1/10W 470ohm
R 637	118-4711-10	1/2W 470ohm
R 638	117-2221-10	1/10W 2.2kohm
R 639	117-1041-10	1/10W 100kohm
R 640	117-2221-10	1/10W 2.2kohm
R 642	117-1031-10	1/10W 10kohm
R 643	117-2231-10	1/10W 22kohm
R 644	117-1031-10	1/10W 10kohm
R 651	117-1031-10	1/10W 10kohm
R 652	117-1031-10	1/10W 10kohm
R 653	117-1031-10	1/10W 10kohm
R 654	117-1031-10	1/10W 10kohm
R 655	117-1031-10	1/10W 10kohm
R 656	117-1031-10	1/10W 10kohm
R 657	117-1031-10	1/10W 10kohm
R 659	117-1031-10	1/10W 10kohm
R 660	117-2221-10	1/10W 2.2kohm
SUP 101	060-0122-10	DSP-201M-S00B
VR 102	012-5203-63	470kohm
VR 103	012-5203-56	10kohm
VR 104	012-5203-55	4.7kohm
X 101	061-1066-00	7.2MHz
X 102	061-3013-00	4.33MHz
X 201	060-1002-00	
X 601	060-0130-50	4.19MHz

◎Switch P.W.B. section for PN-9940U of escutcheon

REF No.	PART No.	DESCRIPTION
C 901	178-1042-78	0.1uF
C 902	178-1042-78	0.1uF
D 901	001-0524-00	HN2D01F
D 901	001-0525-00	IMN10
D 902	001-0524-00	HN2D01F
D 902	001-0525-00	IMN10
IC 901	051-6001-01	uPD16431AGC-7ET
LD 901	001-0518-00	BR1101W
PL 901	017-0429-04	8V 105mA
PL 902	017-0429-04	8V 105mA
PL 903	017-0433-04	14V 40mA
PL 904	017-0428-07	14V 40mA

REF No.	PART No.	DESCRIPTION
PL 905	017-0433-04	14V 40mA
PL 906	017-0433-04	14V 40mA
PL 907	017-0433-04	14V 40mA
R 901	117-1031-10	1/10W 10kohm
R 902	117-1041-10	1/10W 100kohm
R 903	117-1031-10	1/10W 10kohm
SW 901	013-3978-01	
SW 902	013-3978-01	
SW 903	013-3978-01	
SW 904	013-3978-01	
SW 905	013-3978-01	
SW 906	013-3978-01	

REF No.	PART No.	DESCRIPTION
SW 907	013-3978-01	
SW 908	013-3978-01	
SW 909	013-3978-01	
SW 910	013-3978-01	
SW 911	013-3978-01	
SW 912	013-3978-01	
SW 913	013-3978-01	
SW 914	013-3978-01	
SW 915	013-3978-01	
SW 916	013-3978-01	
VR 901	016-0010-02	

◎Sub P.W.B. section for PN-9940U

REF No.	PART No.	DESCRIPTION
C 801	172-1041-11	0.1uF
C 802	172-2241-11	0.22uF
C 803	172-2241-11	0.22uF

REF No.	PART No.	DESCRIPTION
D 801	001-0334-30	RL202
L 801	009-0658-60	
R 801	111-1021-91	1/4WS 1kohm

REF No.	PART No.	DESCRIPTION
R 802	114-4791-11	1W 4.7ohm
R 803	114-2711-21	2W 270ohm
R 804	114-2711-21	2W 270ohm

◎Pre P.W.B. section for PN-9940U

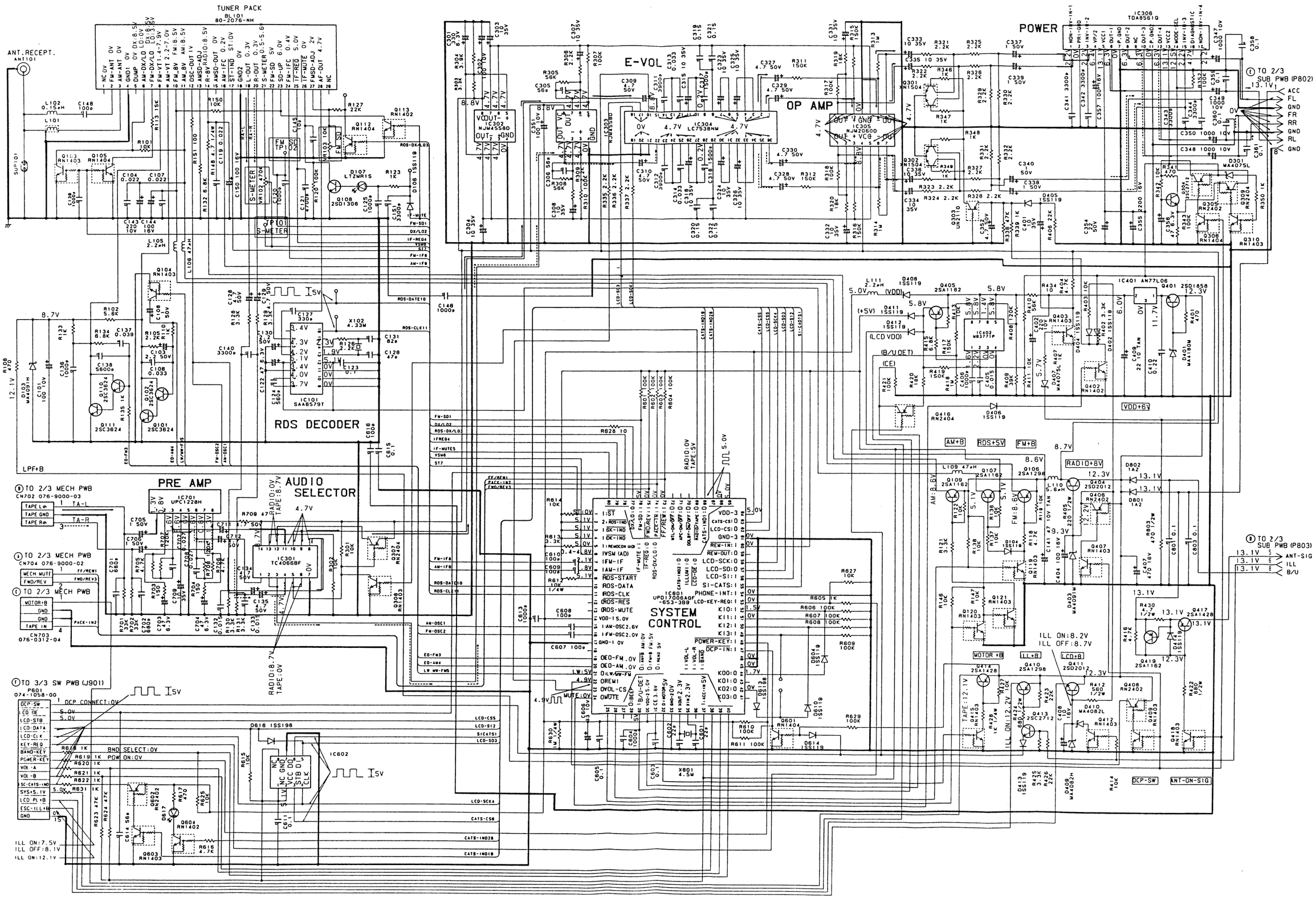
REF No.	PART No.	DESCRIPTION
C 701	173-6811-11	680pF
C 702	173-6811-11	680pF
C 703	183-1073-12	6.3V100uF
C 704	183-1073-12	6.3V100uF
C 705	183-1053-61	50V1uF
C 706	183-1053-61	50V1uF
C 707	178-2732-78	0.027uF
C 708	178-2732-78	0.027uF
C 709	183-1063-51	35V10uF
C 710	183-1063-31	16V10uF
C 711	183-1053-61	50V1uF
C 712	183-1053-61	50V1uF
C 713	178-1532-78	0.015uF
C 714	178-1532-78	0.015uF
C 715	183-4753-51	35V4.7uF
C 716	183-4753-51	35V4.7uF
C 717	183-1073-21	10V100uF
C 718	183-1063-31	16V10uF

REF No.	PART No.	DESCRIPTION
C 719	183-1073-12	6.3V100uF
C 720	183-6843-61	50V0.68uF
C 721	183-6843-61	50V0.68uF
C 722	178-1032-78	0.01uF
D 701	001-0528-41	MA8075-M
IC 701	051-0301-01	uPC1228H
IC 702	051-1038-01	CXA1102M
Q 701	102-2412-00	2SC2412
Q 701	102-2712-00	2SC2712
Q 702	102-2412-00	2SC2412
Q 702	102-2712-00	2SC2712
R 701	117-3331-10	1/10W 33kohm
R 702	117-3331-10	1/10W 33kohm
R 703	117-8201-10	1/10W 82ohm
R 704	117-8201-10	1/10W 82ohm
R 705	117-4721-10	1/10W 4.7kohm
R 706	117-4721-10	1/10W 4.7kohm
R 707	117-1241-10	1/10W 120kohm

REF No.	PART No.	DESCRIPTION
R 708	117-1241-10	1/10W 120kohm
R 709	117-2201-10	1/10W 22ohm
R 710	117-4721-10	1/10W 4.7kohm
R 711	117-1021-10	1/10W 1kohm
R 712	117-1021-10	1/10W 1kohm
R 713	117-4721-10	1/10W 4.7kohm
R 714	117-3321-10	1/10W 3.3kohm
R 715	117-1041-10	1/10W 100kohm
R 716	117-1041-10	1/10W 100kohm
R 717	117-3321-10	1/10W 3.3kohm
R 718	117-4721-10	1/10W 4.7kohm
R 719	117-1011-10	1/10W 100ohm
R 721	117-4331-10	1/10W 47kohm
R 722	117-4701-10	1/10W 47ohm
VR 701	012-4318-06	10kohm
VR 702	012-4318-06	10kohm

■CIRCUIT DIAGRAM 1/3

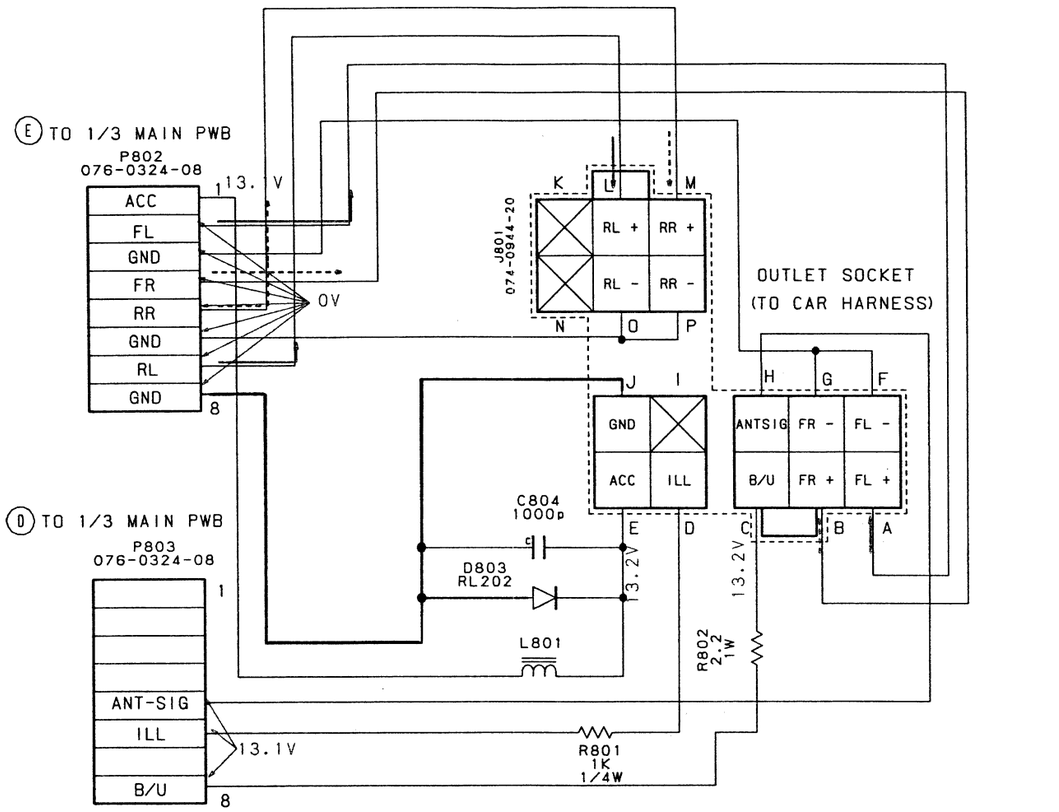
◎ Main P.W.B. section for PN-9939U

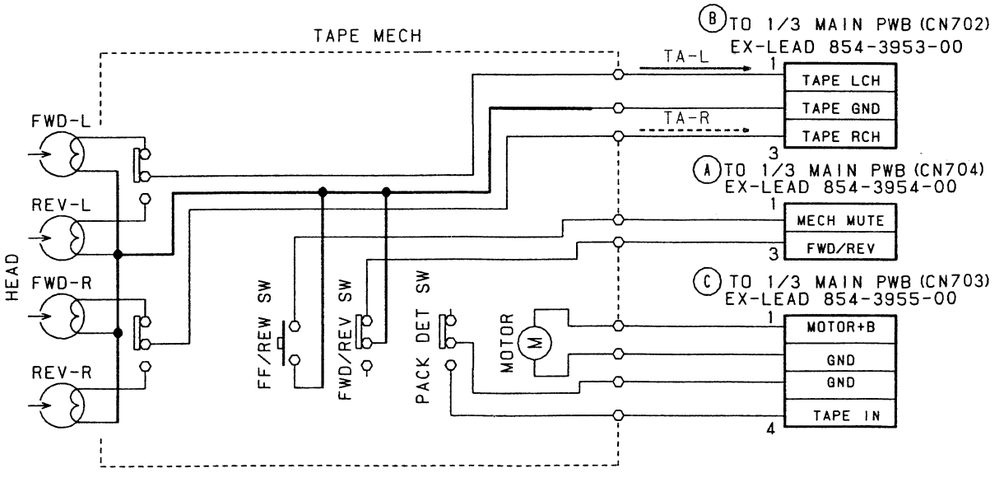


■CIRCUIT DIAGRAM 2/3

◎ Sub P.W.B. / Mechanism P.W.B. section for PN-9939U

A	FRONT SP L-CH +	E	ACC	I	N.C	M	REAR SP R-CH +
B	FRONT SP R-CH +	F	FRONT SP L-CH -	J	GND	N	N.C
C	BACK UP	G	FRONT SP R-CH -	K	N.C	O	REAR SP L-CH -
D	ILLUMINATION	H	ANT. SIGNAL	L	REAR SP L-CH +	P	REAR SP R-CH -

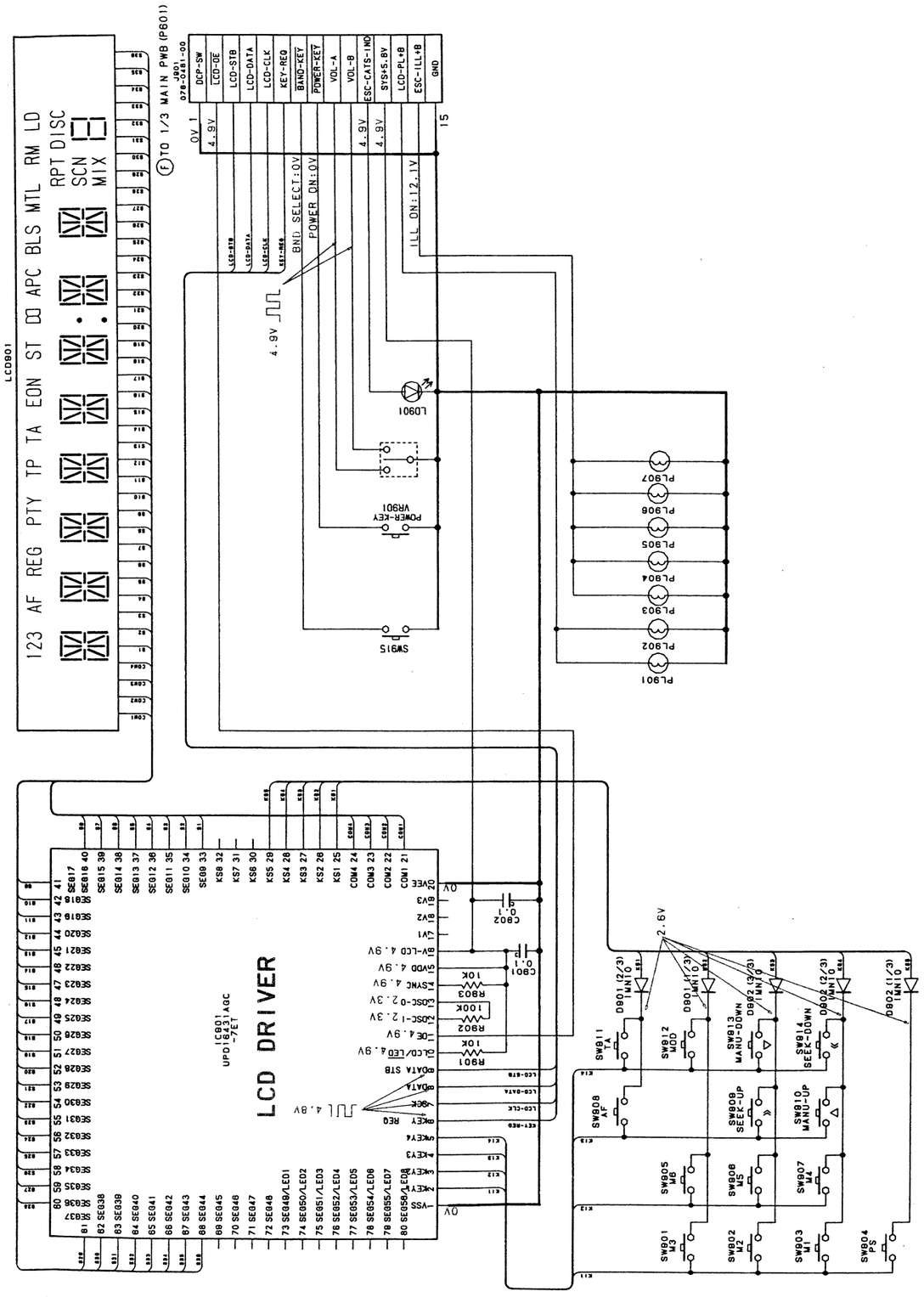




PN-9939U

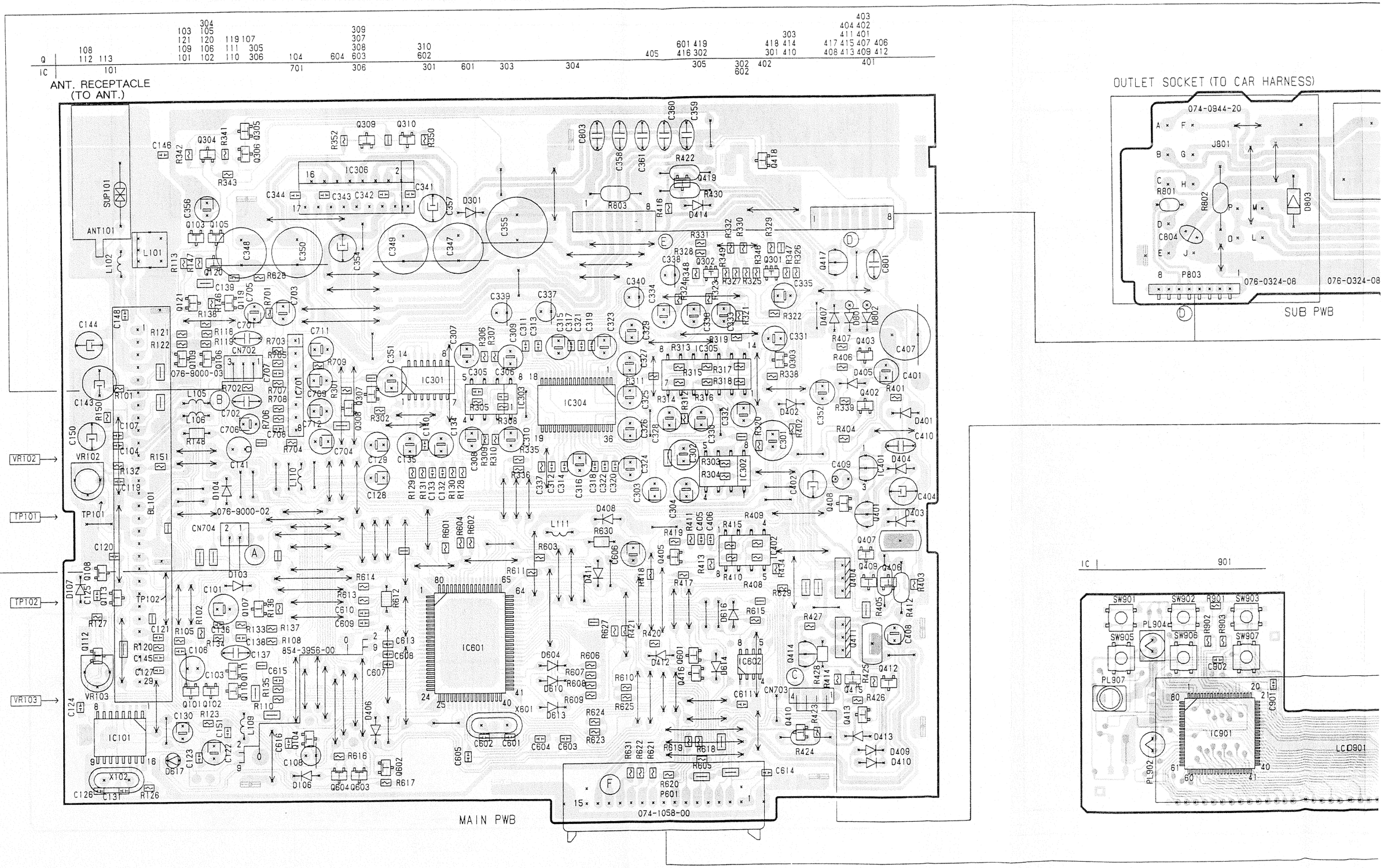
■CIRCUIT DIAGRAM 3/3

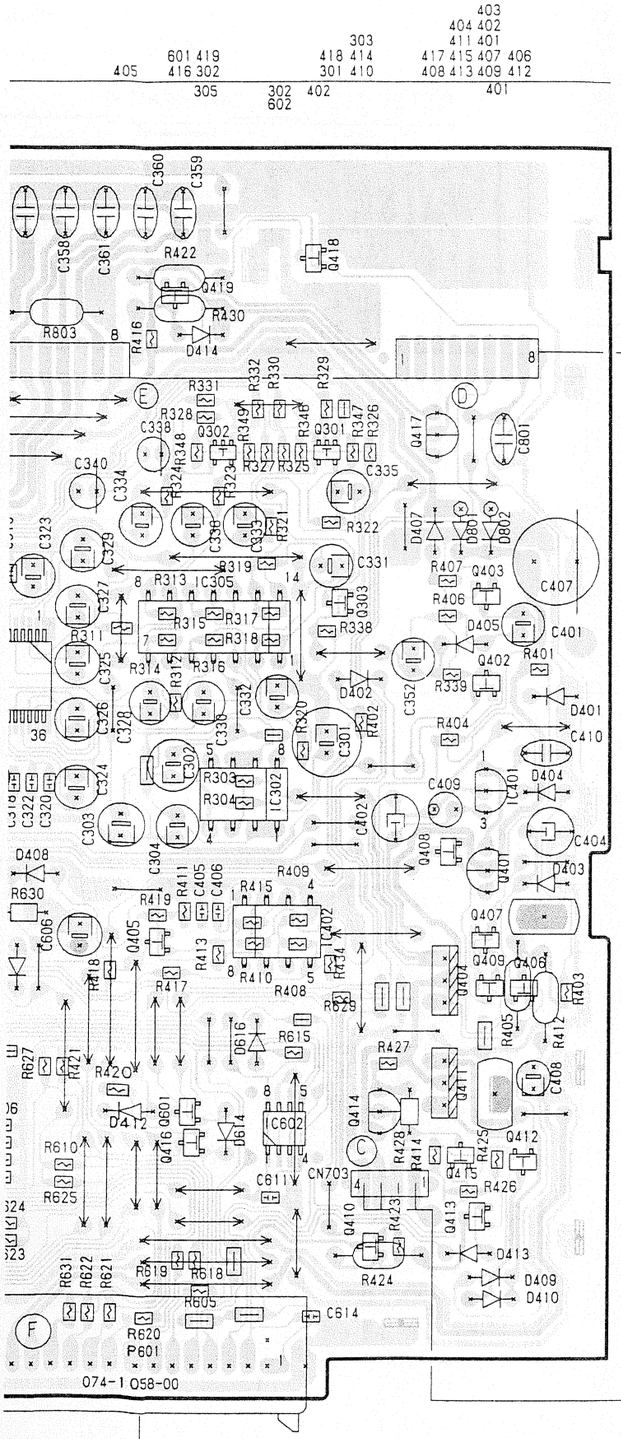
◎ Switch P.W.B. section for PN-9939U



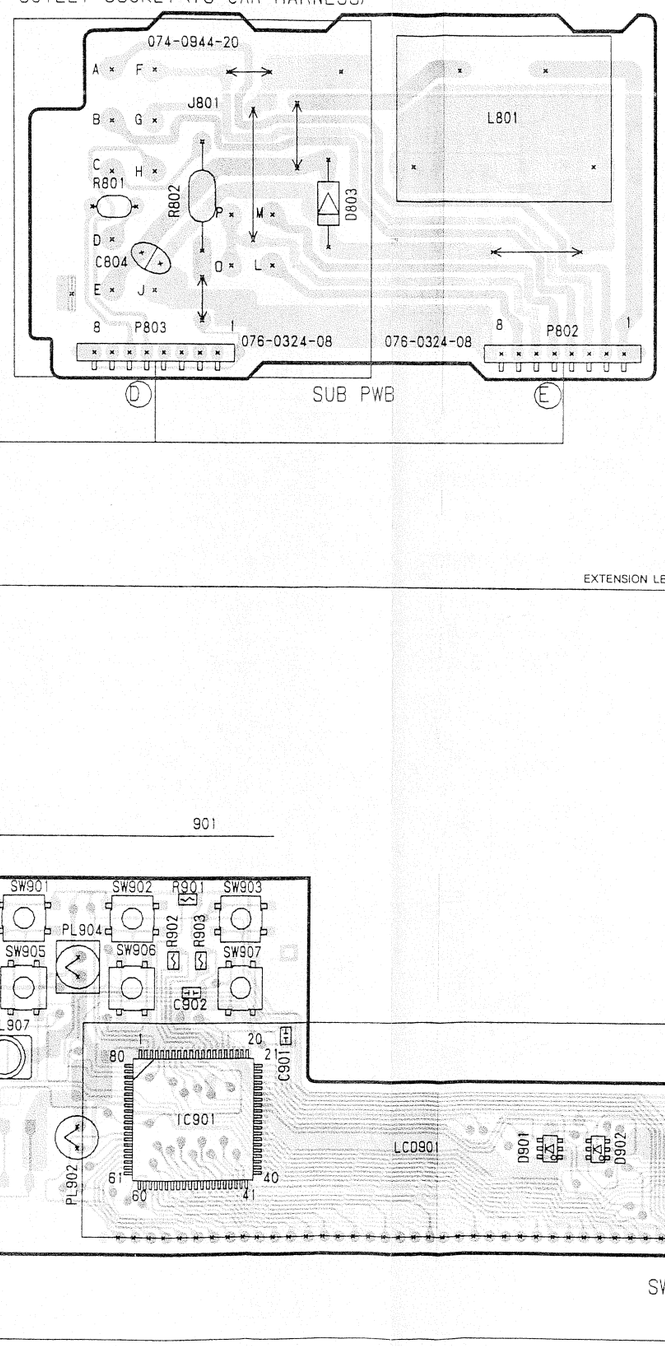
■PRINTED WIRING BOARD

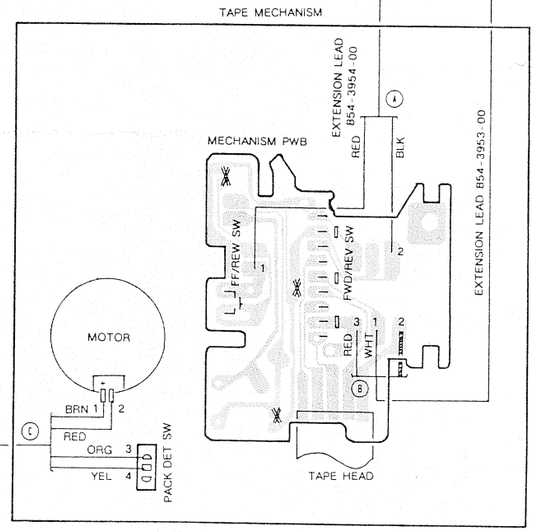
◎ For PN-9939U





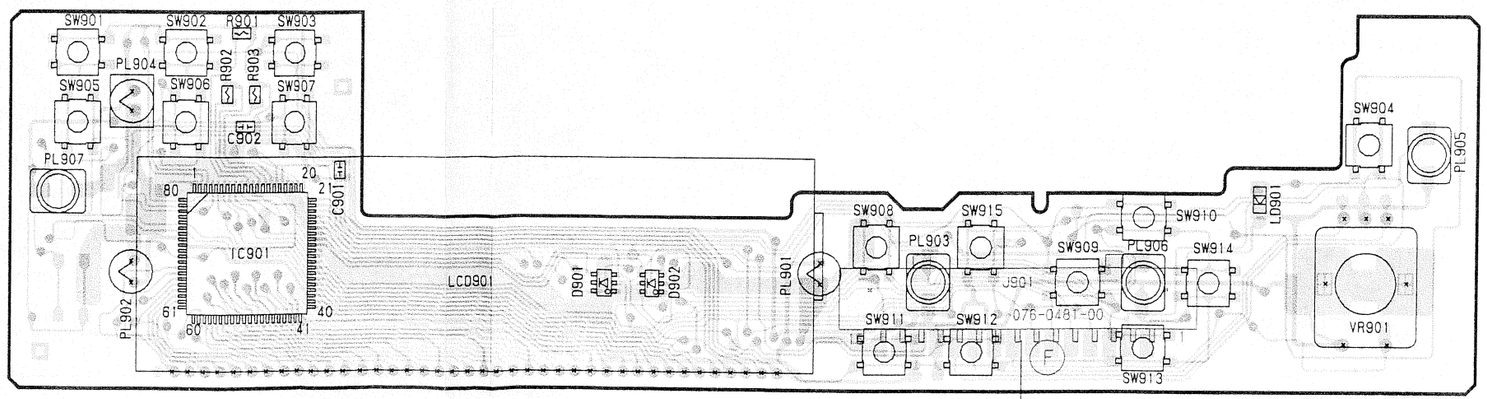
OUTLET SOCKET (TO CAR HARNESS)





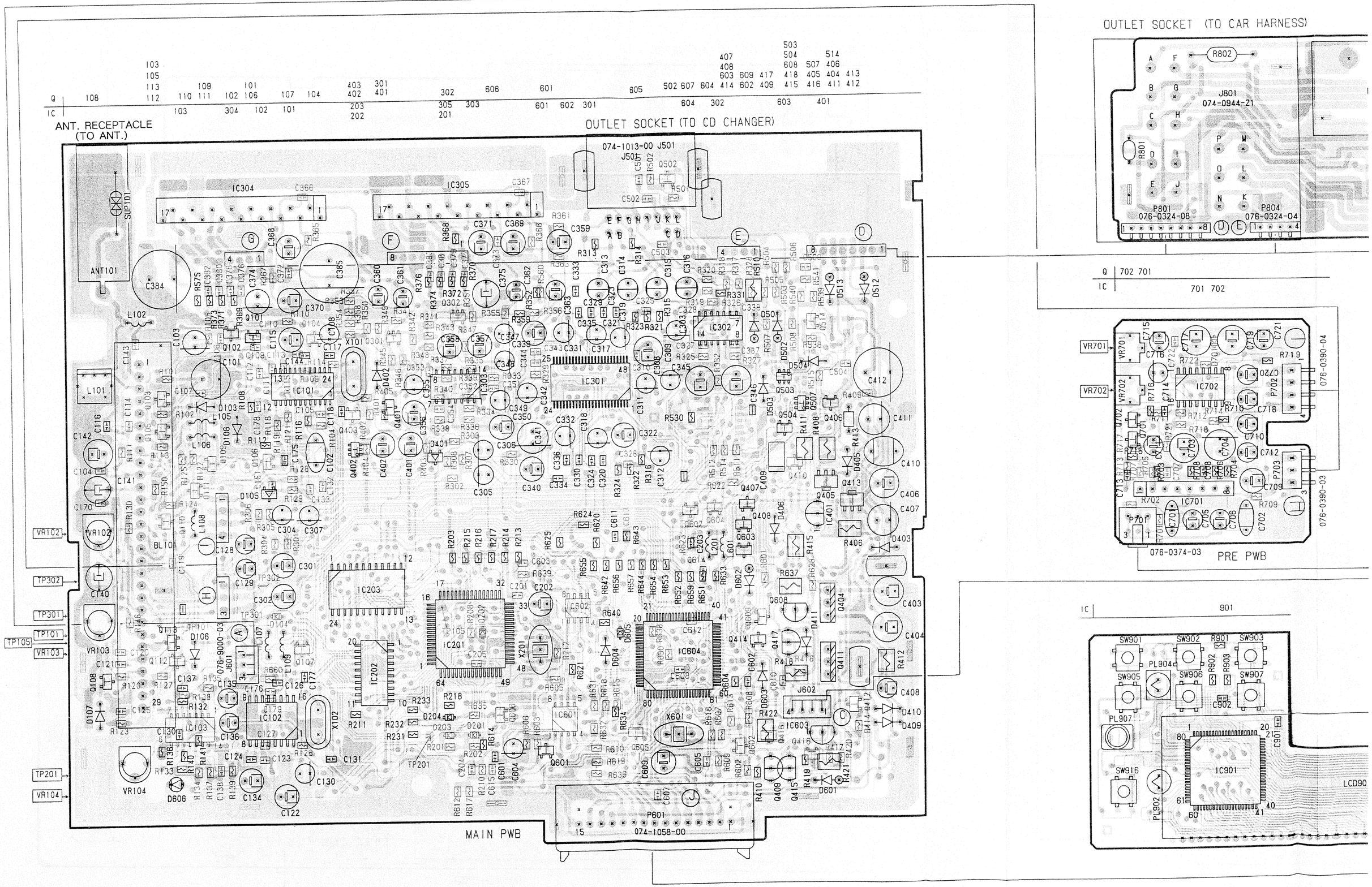
EXTENSION LEAD 854-3955-00

IC 901



■PRINTED WIRING BOARD

◎ For PN-9940U



OUTLET SOCKET (TO CAR HARNESS)

SUB PWB

OUTLET SOCKET (TO CD CHANGER)

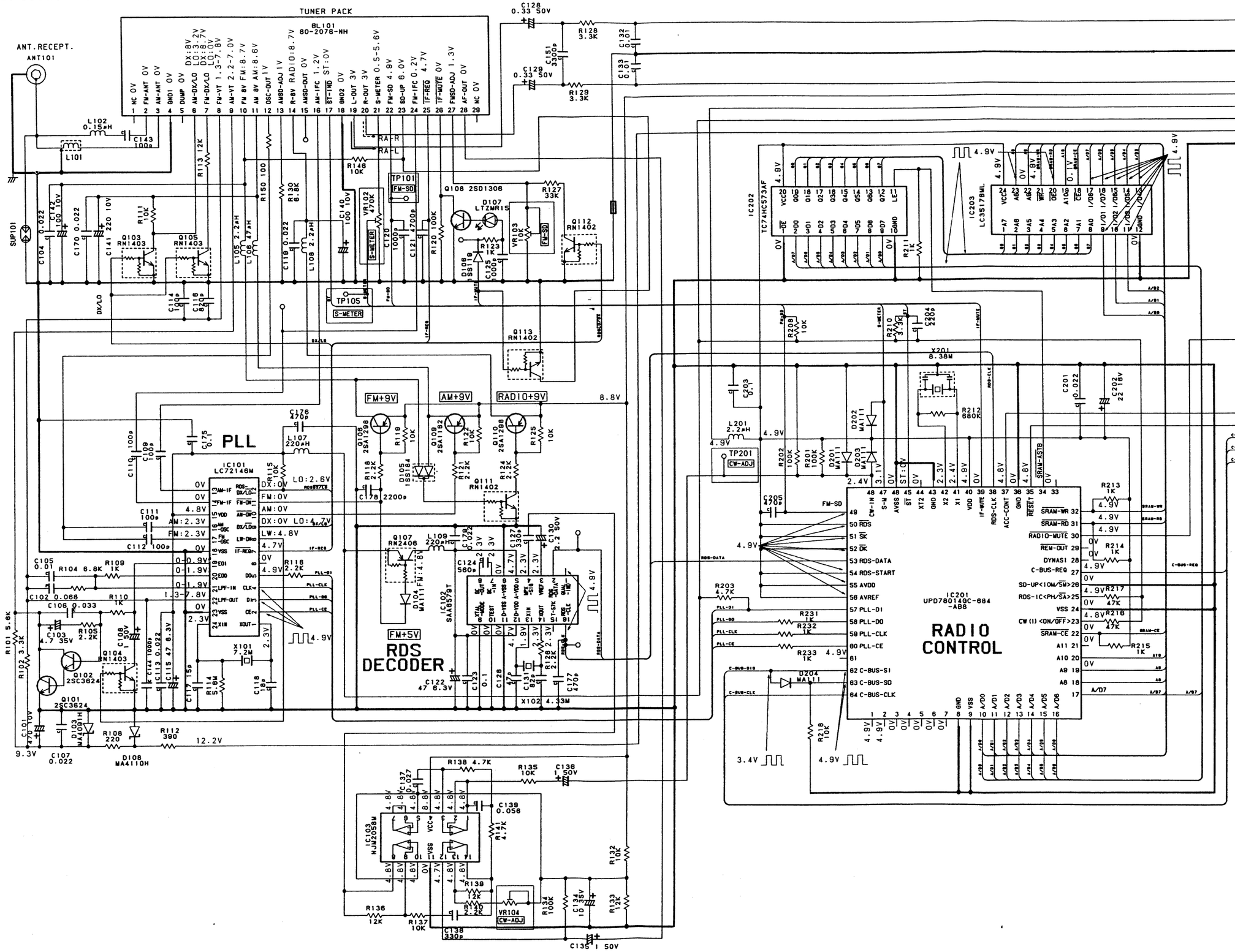
PRE PWB

TAPE MECHANISM

SWITCH PWB

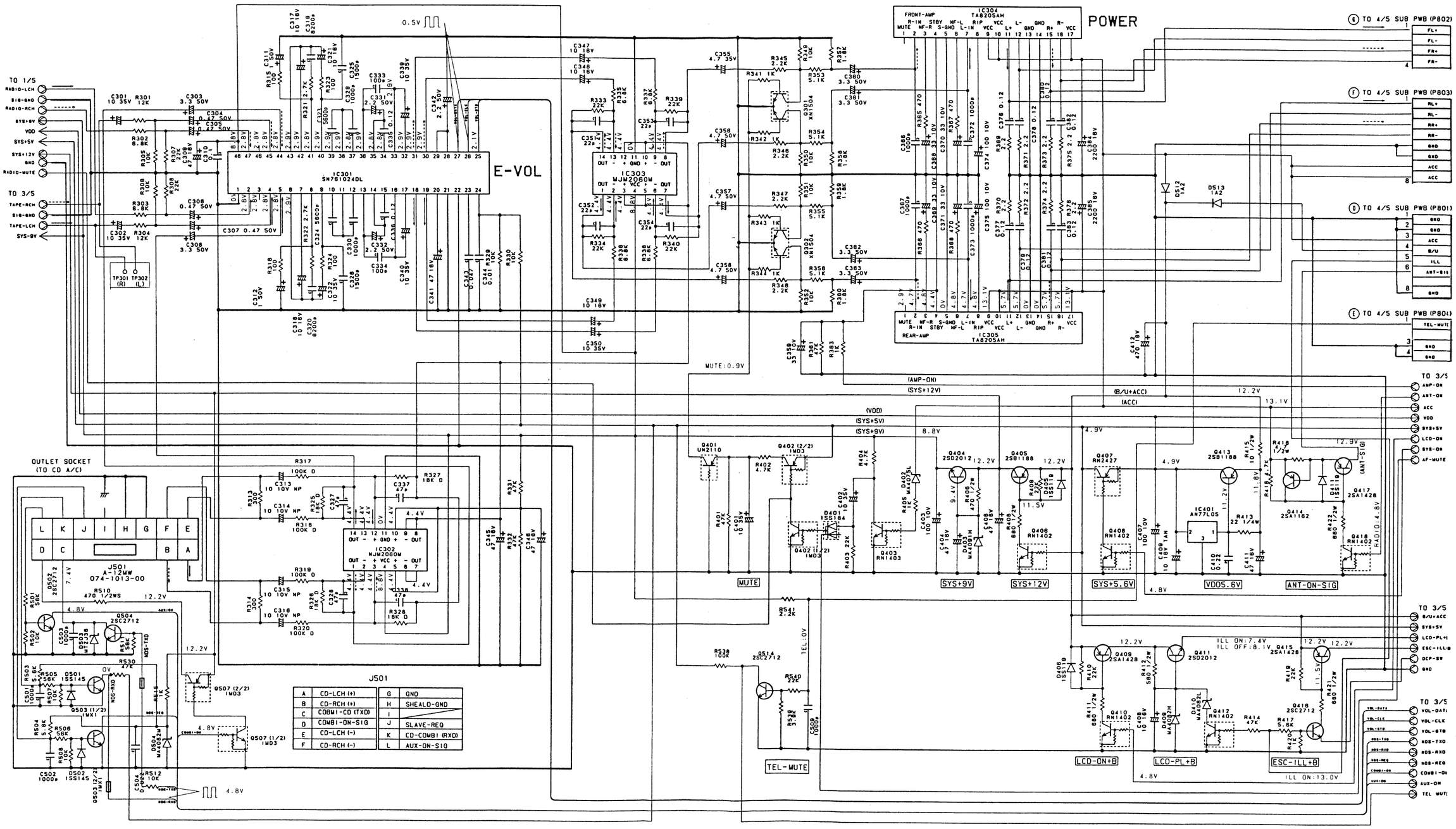
■CIRCUIT DIAGRAM 1/5

◎ Main P.W.B. section for PN-9940U



■CIRCUIT DIAGRAM 2/5

◎ Main P.W.B. section for PN-9940U

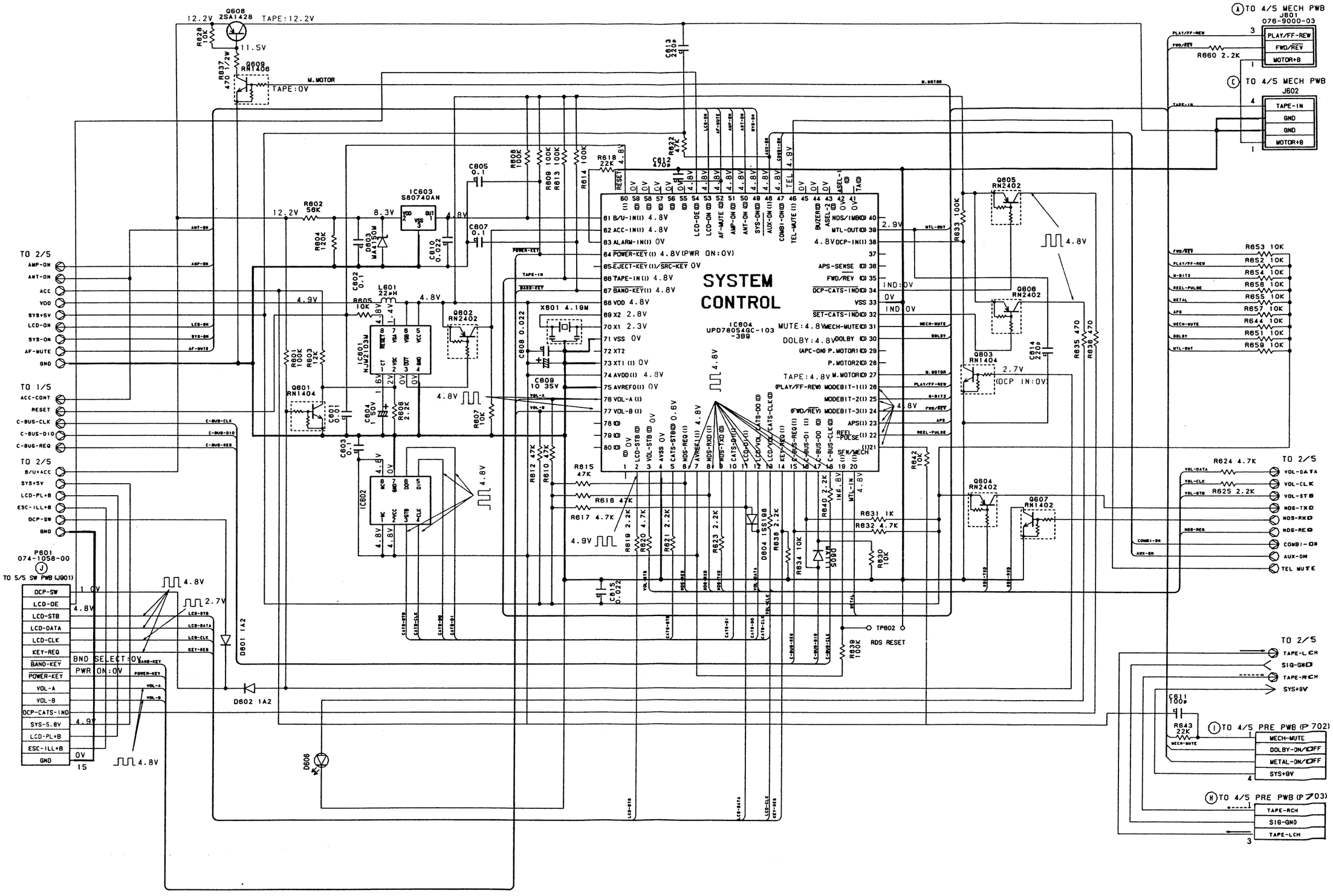


A	CD-LCH (+)	G	GND
B	CD-RCH (+)	H	SHEALD-GND
C	COBWI-CD (TXD)	I	
D	COWBI-ON-SIG	J	SLAVE-REQ
E	CD-LCH (-)	K	CD-COWBI (RXD)
F	CD-RCH (-)	L	AUX-ON-SIG

J501

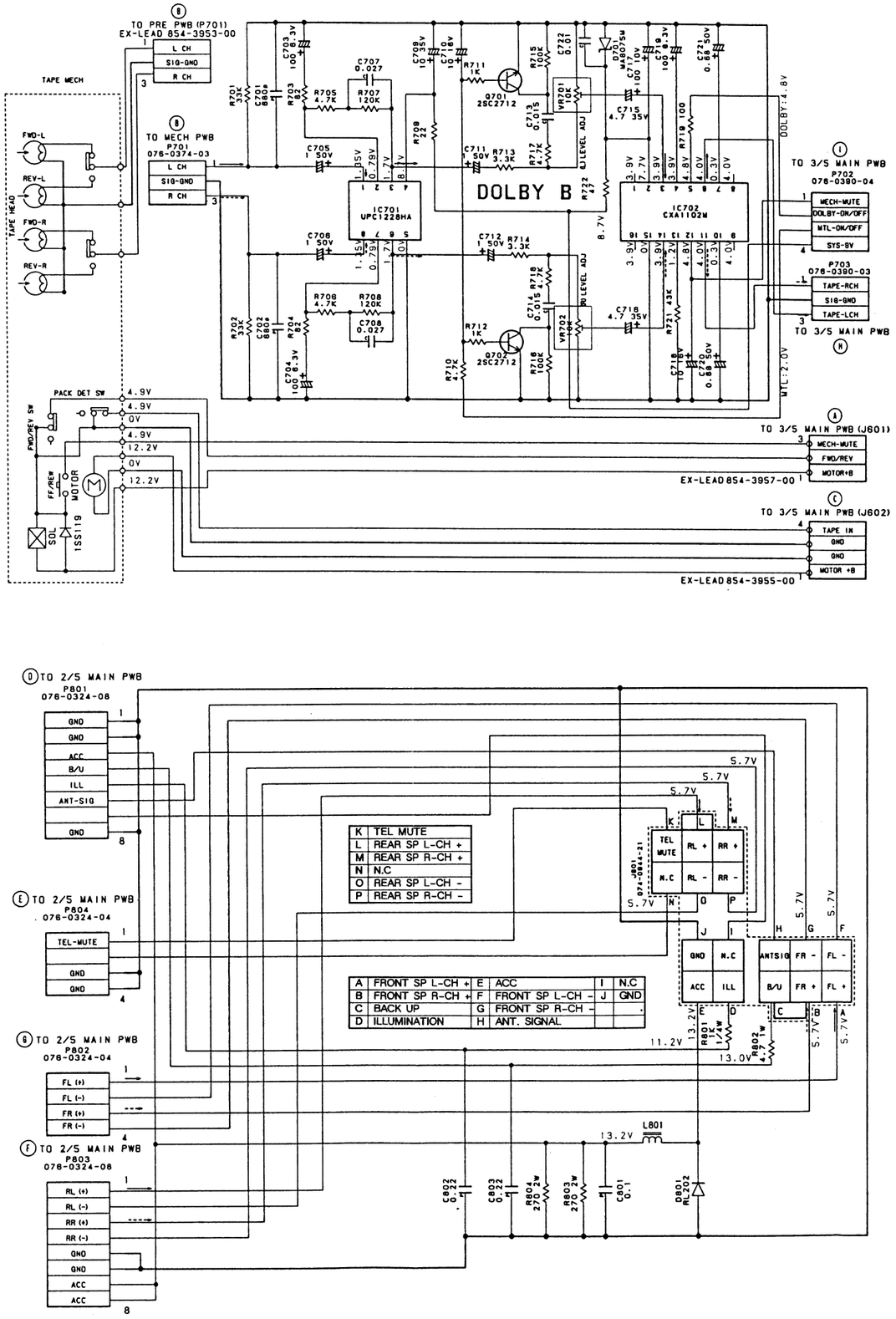
■CIRCUIT DIAGRAM 3/5

◎ Main P.W.B. section for PN-9940U



■CIRCUIT DIAGRAM 4/5

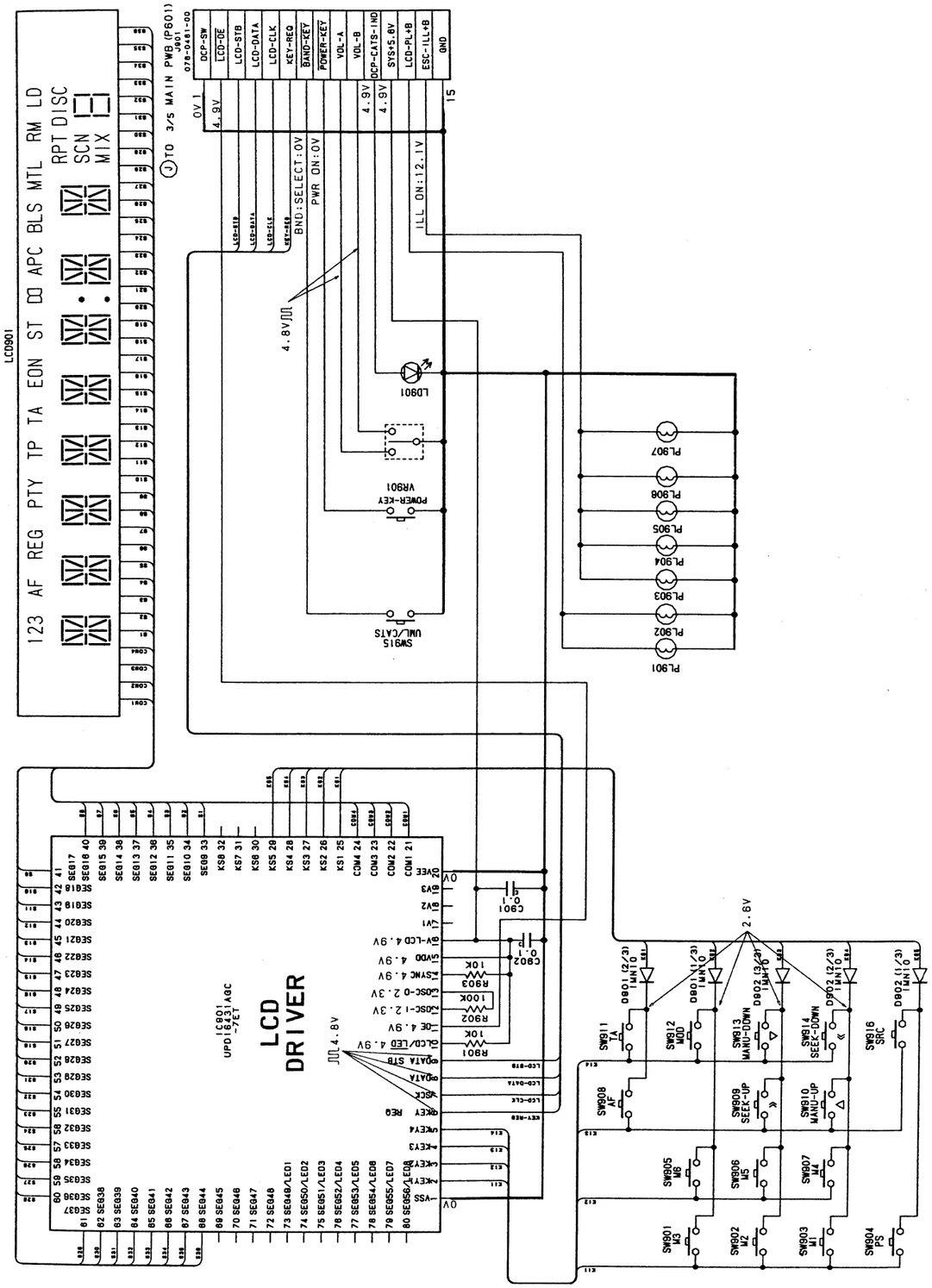
◎ Pre P.W.B. / Sub P.W.B. / Mechanism P.W.B. sction for PN-9940U



PN-9939U

■CIRCUIT DIAGRAM 5/5

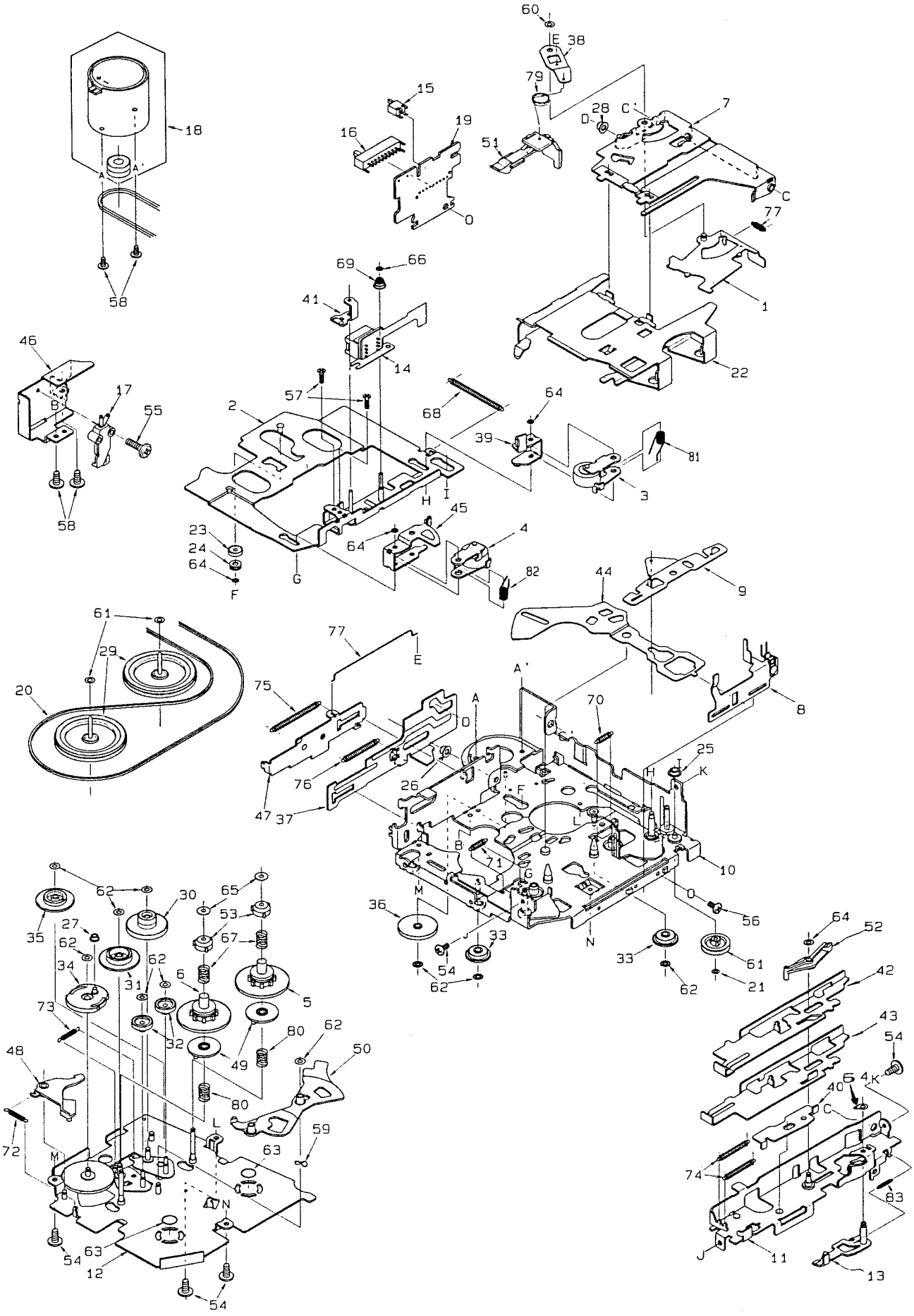
◎ Switch P.W.B. section for PN-9940U



PN-9939U

■EXPLODED VIEW · PARTS LIST

◎ Tape mechanism section for PN-9939U : 930-0701-81 (TOM-1-C)　※PRATS LIST on next page.

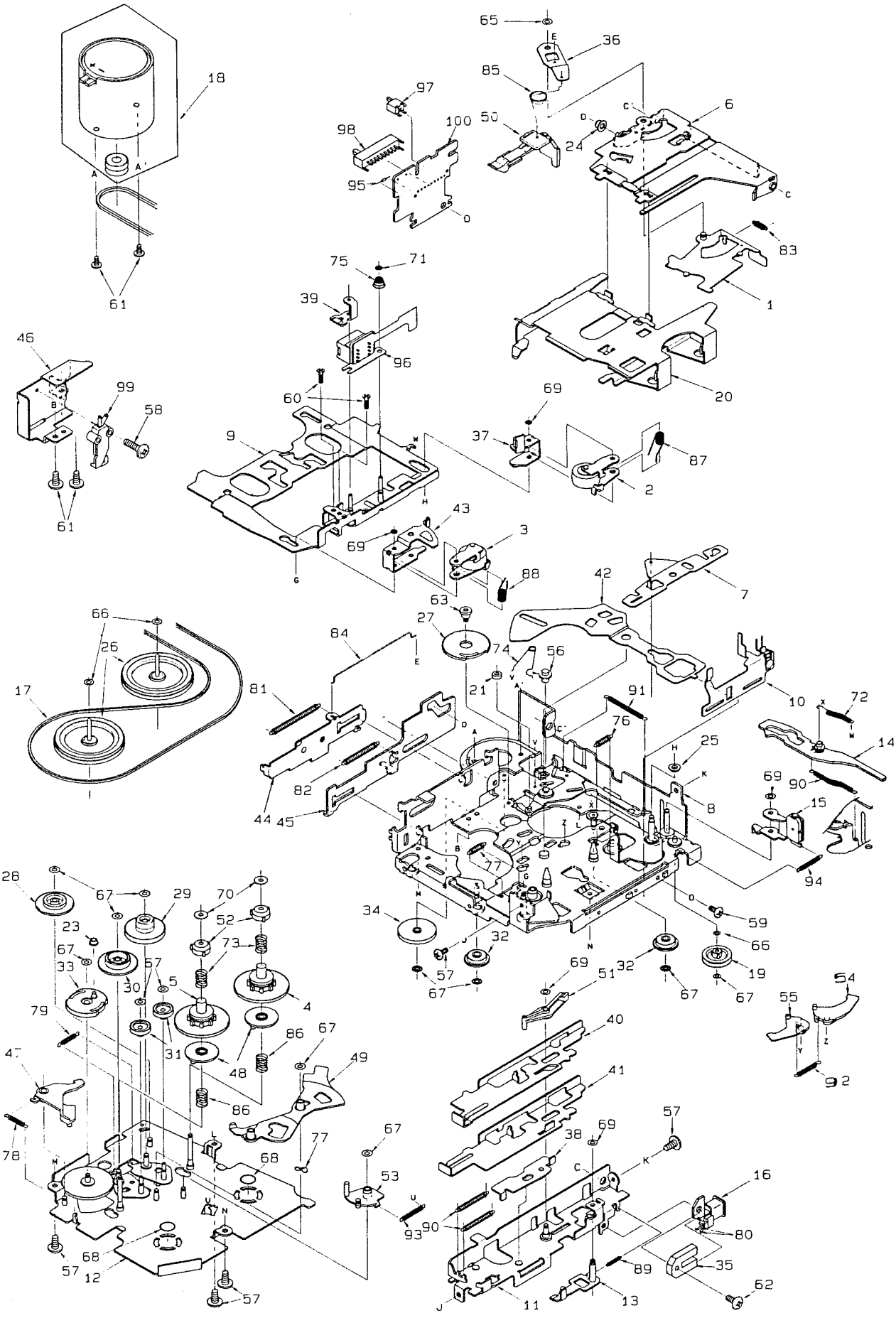


REF NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4141-04	OFF ARM ASS'Y	1
2	960-4143-06	HEAD-P-ASS'Y	1
3	960-4146-02	ROLLER F-ASS'Y	1
4	960-4147-02	ROLLER R-ASS'Y	1
5	960-4154-07	REEL F-ASS'Y	1
6	960-4155-07	REEL R-ASS'Y	1
7	960-4194-02	GUIDE ARM-ASS'Y	1
8	960-4313-03	HD-SW-P-ASS'Y	1
9	960-4203-02	CHANGE-L-ASS'Y	1
10	960-4309-16	DECK-P-ASS'Y-C	1
11	960-4314-03	FRAME-ASS'Y	1
12	960-4315-12	BOTTOM-P-ASS'Y-C	1
13	960-4316-03	LOCK-A-ASS'Y	1
14	011-0313-14	HEAD	1
15	013-3906-00	SWITCH(MUTE)	1
16	013-3922-00	SWITCH(SLIDE)	1
17	013-3924-00	SWITCH(MAIN)	1
18	SMA-144-100	MOTOR ASS'Y	1
19	039-0319-01	MECH PWB	1
20	602-0113-01	BELT	1
21	604-0042-01	PULLEY	1
22	606-0092-02	PACK GUIDE	1
23	610-0034-00	HEAD-P-ROLLER	1
24	610-0324-00	HEAD-G-ROLLER A	1
25	610-0325-00	HEAD-G-ROLLER B	1
26	610-0326-00	EJECT ROLLER	1
27	610-0328-00	CH-ROLLER	1
28	610-0337-00	GUIDE-A-ROLLER	1
29	611-0087-05	FLYWEEL	2
30	613-0259-02	GEAR F	1
31	613-0260-02	GEAR R	1
32	613-0261-01	IDOLER GEAR	2
33	613-0262-01	FF/REW GEAR	2
34	613-0264-02	CH-GEAR	1
35	613-0258-03	GEAR B	1
36	613-0304-10	GEAR A	1
37	630-2417-02	EJECT PLATE	1
38	630-2419-02	SWING ARM	1
39	630-2422-05	RELEASE LINK	1
40	630-2424-04	SELECT LINK	1
41	630-2427-01	AZIMUTH LINK	1
42	630-2678-02	FF LEVER-DCP	1

REF NO.	PART NO.	DESCRIPTION	Q'TY
43	630-2679-02	REW LEVER-DCP	1
44	630-2432-02	CHANGE PLATE	1
45	630-2436-04	REW LINK	1
46	630-2440-01	SWITCH BASE	1
47	630-2445-01	EJECT LEVER-CR	1
48	631-0653-02	LOCK LINK	1
49	631-0656-03	CHECK PLATE	2
50	631-0657-02	CHECK LINK	1
51	631-0658-01	PACK STOPPER	1
52	631-0659-03	MUTE LINK	1
53	631-1967-00	SLIDE BUSH	2
54	714-2003-81	MACHINE SCREW	5
55	714-2008-81	MACHINE SCREW	1
56	716-0891-01	PWB SCREW	1
57	716-1432-00	SCREW(AZIMUTH)	2
58	716-0484-02	SCREW(MOTOR)	4
59	745-0586-03	SPRING WASHER(CHECK-L)	1
60	746-0622-01	WASHER(OFF ARM)	1
61	746-0624-00	WASHER	3
62	746-0761-00	WASHER	11
63	746-0767-00	WASHER(FLYWHEEL)	2
64	746-0768-00	WASHER	5
65	746-0813-00	POLY-WASHER	2
66	746-0832-00	WASHER(AZIMUTH)	1
67	750-2564-01	SLIDE SPRING	2
68	750-2847-01	HEAD-P-SPRING	1
69	750-2848-00	AZIMUTH SPRING	1
70	750-2849-02	FF-P-SPRING	1
71	750-2850-02	REW-P-SPRING	1
72	750-2852-01	LOCK-L-SPRING	1
73	750-2853-01	IDLER-P-SPRING	1
74	750-2854-01	FF/REW SPRING	2
75	750-2857-02	EJECT-L-SPRING	1
76	750-2858-01	EJECT-P-SPRING	1
77	750-2859-00	OFF ARM SPRING	1
78	750-2860-01	LOD SPRING	1
79	750-2861-01	SLOT IN SPRING	1
80	750-2919-02	CHECK SPRING-R	2
81	750-2920-01	CHECK SPRING-F	1
82	750-2921-01	PINCH SPRING-R	1
83	750-3010-01	LOCK-A-SPRING	1

■EXPLODED VIEW · PARTS LIST

◎ Tape mechanism section for PN-9940U : 930-0703-81 (TOM-1-RM) ※PRATS LIST on next page.



REF NO.	PART NO.	DESCRIPTION	QTY
1	960-4141-04	OFF ARM ASS'Y	1
2	960-4146-02	ROLLER F-ASS'Y	1
3	960-4147-02	ROLLER R-ASS'Y	1
4	960-4154-07	REEL F-ASS'Y	1
5	960-4155-07	REEL R-ASS'Y	1
6	960-4194-02	GUIDE ARM-ASS'Y	1
7	960-4203-02	CHANGE-L-ASS'Y	1
8	960-4309-04	DECK-P-ASS'Y-RM	1
9	960-4312-03	HEAD-P-ASS'Y	1
10	960-4313-03	HD-SW-P-ASS'Y	1
11	960-4314-03	FRAME-ASS'Y	1
12	960-4315-01	BOTTOM-P-ASS'Y	1
13	960-4316-03	LOCK-A-ASS'Y	1
14	960-4317-01	SHAFT-P-ASS'Y	1
15	960-4318-00	PLUNGER-L-ASS'Y	1
16	960-3392-02	COIL-ASS'Y	1
17	602-0113-01	BELT	1
18	SMA-144-100	MOTOR ASS'Y	1
19	604-0042-01	PULLEY	1
20	606-0092-02	PACK GUIDE	1
21	610-0293-01	POWER ROLLER	1
22	610-0326-00	EJECT ROLLER	1
23	610-0328-00	CH-ROLLER	1
24	610-0337-00	GUIDE-A-ROLLER	1
25	610-0346-00	HEAD-G-ROLLER	1
26	611-0087-05	FLYWEEL	2
27	613-0094-01	POWER GEAR	1
28	613-0258-03	GEAR B	1
29	613-0259-02	GEAR F	1
30	613-0260-02	GEAR R	1
31	613-0261-01	IDLER GEAR	2
32	613-0262-01	FF/REW GEAR	2
33	613-0264-02	CH-GEAR	1
34	613-0304-10	GEAR A	1
35	630-1479-02	CORE	1
36	630-2419-02	SWING ARM	1
37	630-2422-05	RELEASE LINK	1
38	630-2424-04	SELECT LINK	1
39	630-2427-01	AZIMUTH LINK	1
40	630-2678-02	FF LEVER-DCP	1
41	630-2679-02	REW LEVER-DCP	1
42	630-2432-02	CHANGE PLATE	1
43	630-2436-04	REW LINK	1
44	630-2445-01	EJECT LEVER-CR	1
45	630-2645-00	EJECT PLATE RM	1
46	630-2648-01	SWITCH BASE RM	1
47	631-0653-02	LOCK LINK	1
48	631-0656-03	CHECK PLATE	2
49	631-0657-02	CHECK LINK	1
50	631-0658-01	PACK STOPPER	1

REF NO.	PART NO.	DESCRIPTION	QTY
51	631-0659-03	MUTE LINK	1
52	631-1967-00	SLIDE BUSH	2
53	631-2013-01	CANCEL LINK	1
54	631-2014-01	BRACKET-F	1
55	631-2015-00	BRACKET-R	1
56	632-1889-02	LOCK PIN	1
57	714-2003-81	MACHINE SCREW	5
58	714-2008-81	MACHINE SCREW	1
59	716-0891-01	PWB SCREW	1
60	716-1432-00	SCREW(AZIMUTH)	2
61	716-0484-02	SCREW	4
62	716-1560-00	PLUNGER SCREW	1
63	716-1578-00	GEAR SCREW	1
64	745-0586-03	SPRING WASHER	1
65	746-0622-01	WASHER(OFF ARM)	1
66	746-0624-00	WASHER	3
67	746-0761-00	WASHER	12
68	746-0767-00	WASHER WASHER	2
69	746-0768-00	WASHER	5
70	746-0813-00	POLY-WASHER(REEL-ASS'Y)	2
71	746-0832-00	WASHER(HEAD)	1
72	750-2537-02	OVER-P-SPRING	1
73	750-2564-01	SLIDE-SPRING	2
74	750-2568-00	LOCK SPRING	1
75	750-2848-00	AZIMUTH SPRING	1
76	750-2849-02	FF-P-SPRING	1
77	750-2850-02	REW-P-SPRING	1
78	750-2852-01	LOCK-L-SPRING	1
79	750-2853-01	IDLER-P-SPRING	1
80	800-0607-60	VINYL-COAT-WIRE	2
81	750-2857-02	EJECT-L-SPRING	1
82	750-2858-01	EJECT-P-SPRING	1
83	750-2859-00	OFF ARM SPRING	1
84	750-2860-01	LOD SPRING	1
85	750-2861-01	SLOT IN SPRING	1
86	750-2919-02	CHECK SPRING-R	2
87	750-2920-01	PINCH SPRING-F	1
88	750-2921-01	PINCH SPRING-R	1
89	750-3010-01	LOCK-A-SPRING	1
90	750-3011-00	SHIFT-P-SPRING	3
91	750-3012-00	POWER-P-SPRING	1
92	750-3013-00	BRACKET SPRING	1
93	750-3014-00	CANCEL SPRING	1
94	750-3015-01	PLUNGER SPRING	1
95	001-0330-00	DIODE	1
96	011-0313-14	HEAD	1
97	013-3906-00	SWITCH(MUTE)	1
98	013-0922-00	SWITCH(SILDE)	1
99	013-3924-00	SWITCH(MAIN)	1
100	039-0319-01	MECH PWB	1